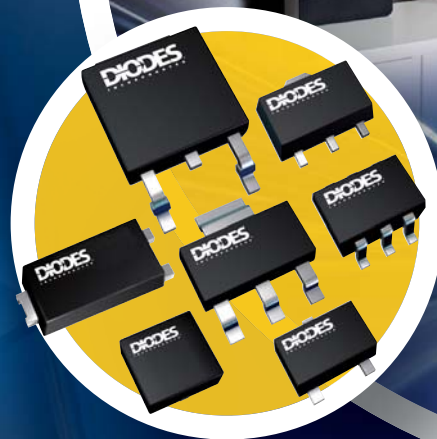


BIPOLAR TRANSISTORS

LEADING EDGE TECHNOLOGY
SUPPORTED BY EXTENSIVE
PACKAGING CAPABILITY



COMPANY OVERVIEW

Diodes Incorporated is a leading global provider of Discrete and Analog semiconductors.

Its global footprint includes sales offices in 5 countries and manufacturing locations in China, Europe and the USA.

A focus on product innovation, cost reduction, acquisitions and customer service has made Diodes Incorporated an industry leader.

Combining leading silicon and packaging technologies, Diodes provides a broad portfolio of discrete semiconductors comprising Bipolar Transistors, MOSFETs, Schottky diodes, SBR, switching diodes and functional specific arrays to enable our customers' next generation designs.

The Diodes' Analog IC portfolio consists of 6 main areas: Power Management ICs, Standard Linear, Lighting, Sensors, Direct Broadcast by Satellite and Applications Specific Standard Products.



Diodes leads the way...

Diodes is the market leader when it comes to Bipolar transistors.

Following the acquisition of Zetex Semiconductors in 2008, the company has enhanced its cost competitive small signal transistor portfolio with "best in class" transistor technology from Zetex.

By utilizing its wide line up of in-house packaging and superior silicon technology, Diodes is ideally positioned to meet your application needs for Bipolar transistors.

Continued Innovation

The Bipolar transistor portfolio is built on successive generations of our innovative matrix emitter process.

Years of know-how, leading edge designs and process innovation have extended our leadership in building ultra-low saturation, fast switching transistors.

Best in Class Performance

With focus on optimizing processes for the lowest saturation voltage, reduced die area and subsequently improved switching performance, the consequent reduction in power dissipation allows ever smaller surface mount packages which still meet the demands of the target applications.

The inherent ruggedness to ESD of the Bipolars along with their very low specific on-resistance also make them very cost effective alternatives to MOSFET technology in a wide range of circuit topologies.

Application Specific Products

Market demands for improved electronic systems solutions, whether in terms of improved efficiency, increased power density, or just cost reduction, drive all our application specific products.

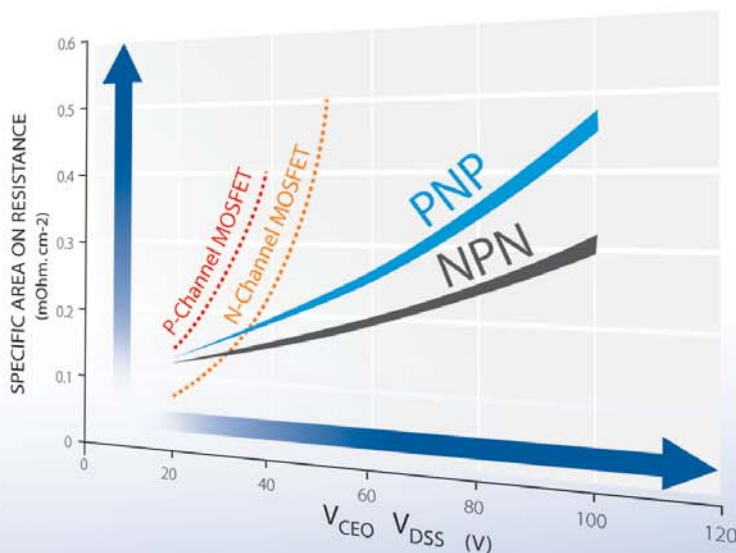
Avalanche transistors, Gate drivers and H-bridge devices have all been developed to create dedicated solutions driven by customer needs and combine the benefits of the exceptional transistor die performance with Diodes packaging expertise.

Quality

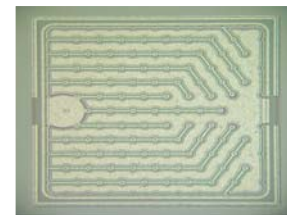
The majority of the products in the Diodes' Bipolar transistor portfolio are designed to meet the stringent requirements of the Automotive Electronic Council specification AECQ101.

Furthermore all packages are available with 'green' mold compound.

Latest generation Bipolars offer lower specific on-resistance than MOSFETs



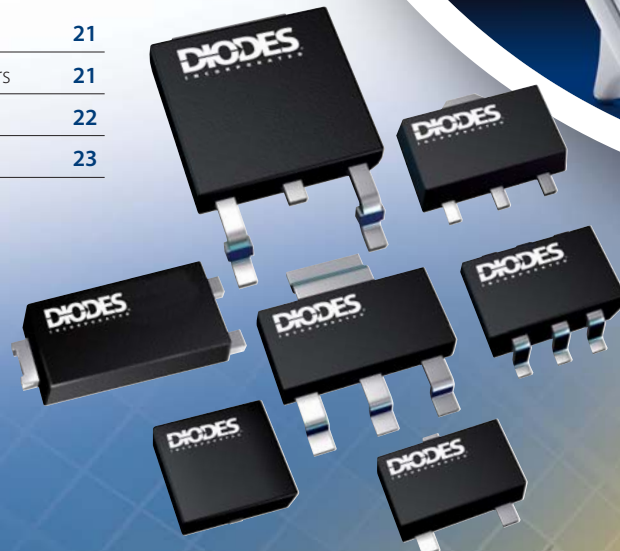
World leading Bipolar processing and designs



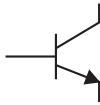
- Inventor of the Matrix emitter transistor structure.
- Industry leading low saturation voltage.
- Highest current handling capability for given package outlines.
- Reduced switching losses due to smaller die sizes.
- High minimum gains to reduce base drive requirements.
- Reverse blocking capability.

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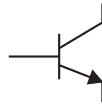


NPN Transistors up to 25V



Part Number	V _{CEO} V	I _C A	I _{CM} A	P _D W	h _{FE}				V _{CE(sat)}				f _T MHz	R _{CE(sat)} mΩ	Package
					Min.	@ I _C A	Min.	@ I _C A	Max. mV	@ I _C /I _B A/mA	Max. mV	@ I _C /I _B A/mA			
FZT1047A	10	5	20	2.5	300	1	200	5	40	0.5/10	350	5/25	150	44	SOT223
FCX1047A	10	4	20	2	300	1	200	4	40	0.5/10	240	4/50	150	40	SOT89
ZXTN25012EZ	12	6.5	15	2.4	500	0.01	185	6.5	60	1/10	130	2/20	260	25	SOT89
ZXTN25012EFH	12	6	15	1.25	500	0.01	300	4	32	1/100	190	6/120	260	23	SOT23
ZXTN07012EFF	12	4.5	10	1.5	500	0.1	330	4.5	85	1/10	150	2/20	150	43	SOT23F
FZT688B	12	4	10	2	500	0.1	400	3	40	0.1/1	400	4/50	150	83	SOT223
FCX688B	12	3	10	1	500	0.1	400	3	40	0.1/1	350	3/10	150	-	SOT89
ZTX688B	12	3	10	1	500	0.1	400	3	40	0.1/1	350	3/20	150	-	E-Line
2DD2678	12	3	6	2	270	0.5	-	-	250	1.5/30	-	-	170	-	SOT89
ZXTN25012EFL	12	2	15	0.35	500	0.01	210	5	85	1/10	130	2/40	260	46	SOT23
2DD2661	12	2	4	2	270	0.2	-	-	180	1/50	-	-	170	-	SOT89
2DD2652	12	1.5	3	0.5	270	0.2	-	-	200	0.5/25	-	-	260	-	SOT323
ZXTN23015CFH	15	6	12	1.25	200	0.5	150	6	30	1/100	180	6/120	235	19	SOT23
ZXT13N15DE6	15	5	15	1.1	300	1	200	5	70	1/10	200	5/100	72	29	SOT23-6
ZXTN25015DFH	15	5	15	1.25	300	0.01	150	5	80	1/10	215	5/100	150	25	SOT23
ZXTN617MA	15	4.5	15	1.5	300	0.2	150	5	14	0.1/10	280	4.5/50	80	45	DFN2020B-3
ZXT10N15DE6	15	4	13	1.1	300	0.2	200	3	14	0.1/10	260	4/50	80	50	SOT23-6
FCX617	15	3	12	2	300	0.2	200	3	14	0.1/10	300	4/50	120	50	SOT89
ZXT11N15DF	15	3	5	0.625	300	0.2	200	3	80	1/10	150	3/150	145	37	SOT23
FMMT617	15	3	12	0.625	300	0.2	200	3	14	0.1/10	200	3/50	80	50	SOT23
ZUMT617	15	1.5	5	0.385	300	0.1	200	1	20	0.1/10	245	1.5/20	180	135	SOT323
FZT1048A	17.5	5	20	2.5	300	1	180	5	45	0.5/10	350	5/25	150	50	SOT223
ZTX1048A	17.5	4	20	1	300	1	220	4	45	0.5/10	245	4/20	150	-	E-Line
ZXTN19020DG	20	9	20	3	300	0.1	130	9	70	1/10	100	2/20	160	20	SOT223
ZXTN19020DZ	20	7.5	20	2.4	300	0.1	150	7.5	70	1/10	100	2/20	160	21	SOT89
ZXTN19020CFF	20	7	15	1.5	200	0.1	100	7	65	1/10	70	2/40	150	18	SOT23F
ZXTN25020DG	20	7	15	3	300	0.01	250	2	75	1/20	180	2/20	215	31	SOT223
ZXTN19020DFF	20	6.5	20	1.5	300	0.1	160	6.5	65	1/10	95	2/20	160	18	SOT23F
ZXTN25020DZ	20	6	15	2.4	300	0.01	250	2	75	1/20	180	2/20	215	30	SOT89
2DD2098R	20	5	10	1	180	0.5	-	-	1000	4/100	-	-	220	-	SOT89
ZXT13N20DE6	20	4.5	15	1.1	300	1	200	5	75	1/10	230	4.5/45	90	38	SOT23-6
ZXTN25020BFH	20	4.5	10	1.25	100	0.01	75	4.5	45	1/100	240	4.5/90	185	27	SOT23
ZXTN25020CFH	20	4.5	10	1.25	200	0.01	90	4.5	45	1/100	220	4.5/90	185	28	SOT23
ZXTN25020DFH	20	4.5	15	1.25	300	0.01	120	4.5	43	1/100	265	4.5/90	215	28	SOT23
ZXTN618MA	20	4.5	12	1.5	300	0.2	100	6	15	0.1/10	270	4.5/125	100	47	DFN2020B-3
ZXT10N20DE6	20	3.5	19	1.1	300	0.2	200	2	15	0.1/10	250	3.5/100	100	55	SOT23-6
ZTX618	20	3.5	10	1	300	0.2	170	3	15	0.1/10	255	3.5/50	100	-	E-Line
FZT689B	20	3	8	2	500	0.1	400	2	100	0.1/0.5	450	3/20	150	92	SOT223
ZTX689B	20	3	8	1	500	0.1	400	2	100	0.1/0.5	500	2/10	150	-	E-Line
ZXT11N20DF	20	2.5	5	0.625	300	0.1	150	3	100	1/10	130	2.5/250	160	40	SOT23
FMMT618	20	2.5	6	0.625	300	0.2	200	2	15	0.1/10	200	2.5/50	100	50	SOT23
DSS20201L	20	2	4	1.2	200	0.01	200	2	10	0.1/10	90	1/10	150	50	SOT23
ZXTN25020DFL	20	2	8	0.35	300	0.01	220	2	100	1/20	225	2/20	215	55	SOT23
DSS4320T	20	2	5	0.6	220	0.1	200	2	120	1/50	230	2/40	100	35	SOT23
DSS4220V	20	2	4	0.6	220	0.1	200	1	55	0.1/1	175	1/100	260	175	SOT563
ZXTN26020DMF	20	1.5	4	1	300	0.1	270	1	125	1/50	290	2/40	260	90	DFN1411-3
FMMTL618	20	1.25	4	0.5	300	0.2	200	1	35	0.1/10	280	1.25/100	195	140	SOT23
ZUMT618	20	1.25	4	0.385	300	0.1	100	1	25	0.1/10	250	1.25/50	210	125	SOT323

NPN Transistors up to 25V (continued)



Part Number	V _{CEO} V	I _C A	I _{CM} A	P _D W	h _{FE}				V _{CE(sat)}				f _T MHz	R _{CE(sat)} mΩ	Package
					Min.	@ I _C A	Min.	@ I _C A	Max. mV	@ I _C /I _B A/mA	Max. mV	@ I _C /I _B A/mA			
ZXTN2005G	25	7	20	3	300	1	200	7	40	0.5/10	230	6.5/150	150	30	SOT223
ZXTN2005Z	25	5.5	20	2.1	300	1	200	7	45	1/100	200	6.5/150	150	25	SOT89
ZTX869	25	5	20	1.2	300	1	250	5	50	0.5/10	220	5/100	100	-	E-Line
DXT3150	25	5	-	1	250	0.5	150	2	350	3/150	500	4/200	220	-	SOT89
DZT3150	25	5	-	2	250	0.5	150	2	350	3/150	500	4/200	150	-	SOT223
ZTX1049A	25	4	20	1	300	1	200	4	45	0.5/10	220	4/50	180	-	E-Line
FZT649	25	3	8	2	100	1	75	2	300	1/100	600	3/300	150	-	SOT223
ZXTN649F	25	3	6	0.5	200	0.1	155	2	120	1/100	300	3/300	-	77	SOT23
ZTX649	25	2	6	1	100	1	75	2	300 50"	1/100	500	2/200	150	-	E-Line
2DD1621T	25	2	-	1	200	0.1	65	1.5	400	1.5/75	-	-	300	-	SOT89

THE DIODES ADVANTAGE

Did you know? The ZXTN26020DMF is the smallest 1.5A continuous current rated transistor.

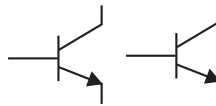


Product features

- DFN1411 package measuring just 1.4 x 1.1mm.
- P_D = 380mW on minimum copper, 1W on 1" sq copper.
- I_C = 1.5A continuous, 4A pulse.
- h_{FE} min = 270; V_{CE(sat)} = 125mV @ 1A.
- PNP complement ZXTN26020DMF.

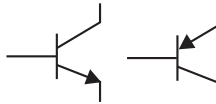


Dual NPN Transistors up to 25V



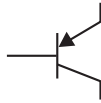
Part Number	V _{CEO} V	I _C A	I _{CM} A	P _D W	h _{FE}				V _{CE(sat)}				f _T MHz	R _{CE(sat)} mΩ	Package
					Min.	@ I _C A	Min.	@ I _C A	Max. mV	@ I _C /I _B A/mA	Max. mV	@ I _C /I _B A/mA			
ZXTD617MC	15	4.5	15	1.5	300	0.2	150	5	100	1/10	280	4.5/50	120	45	DFN3020B-8
ZDT1048	17.5	5	20	2.75	300	0.5	250	5	75	1/10	300	5/50	150	-	SM8
ZXTD618MC	20	4.5	12	1.5	300	0.2	100	6	150	1/10	135	2/50	140	47	DFN3020B-8
ZXT12N20DX	20	3.5	15	1.25	300	1	200	3.5	100	1/10	200	3.5/50	112	40	MSOP-8
ZDT1049	25	5	20	2.75	300	0.5	200	4	80	1/10	220	4/50	180	-	SM8

NPN & PNP Transistors up to 25V



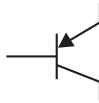
Part Number	V _{CEO} V	I _C A	I _{CM} A	P _D W	h _{FE}				V _{CE(sat)}				f _T MHz	R _{CE(sat)} mΩ	Package
					Min.	@ I _C A	Min.	@ I _C A	Max. mV	@ I _C /I _B A/mA	Max. mV	@ I _C /I _B A/mA			
ZXTC2061E6	12 -12	5 -3.5	12 -10	1.1	480 290	1 -1	260 75	5 -3.5	60 -265	1/10 -1/-10	80 -360	2/40 -2/-40	260 310	25 45	SOT23-6
ZXTC6717MC	15 -12	4.5 -4	15 -12	1.5	300 300	0.2 -0.1	150 180	5 -2.5	100 -140	1/10 -1/-10	280 -300	4.5/50 -3/-50	80 100	45 60	DFN3020B-8
ZXTD6717E6	15 -12	1.5 -1.25	5 -3	1.1	250 200	0.5 -0.5	75 30	3 -3	100 -175	0.5/10 -0.5/-10	245 -215	1.5/20 -1/-50	180 220	135 150	SOT23-6
ZXTC6718MC	20 -20	4.5 -3.5	12 -6	1.5	300 300	0.2 -0.1	100 150	6 -2	150 -220	1/10 -1/-20	135 -250	2/50 -1.5/-50	100 150	47 64	DFN3020B-8
ZXTC2062E6	20 -20	4 -3.5	10 -10	1.1	280 170	1 -1	140 65	4 -3.5	75 -135	1/20 -1/-20	190 -250	4/200 -3.5/-175	215 290	35 54	SOT23-6

PNP Transistors up to 25V



Part Number	V _{CEO} V	I _C A	I _{CM} A	P _D W	h _{FE}				V _{CE(sat)}				f _T MHz	R _{CE(sat)} mΩ	Package
					Min.	@ I _C A	Min.	@ I _C A	Max. mV	@ I _C /I _B A/mA	Max. mV	@ I _C /I _B A/mA			
FZT968	-12	-6	-20	3	300	-0.5	150	-10	-130	-0.5/-5	-450	-6/-250	80	44	SOT223
FZT1147A	-12	-5	-20	2.5	250	-0.5	150	-5	-110	-0.5/-2.5	-400	-5/-50	115	-	SOT223
ZTX968	-12	-4.5	-20	1.2	300	-0.5	150	-10	-100	-0.5/-5	-300	-5/-200	80	-	E-Line
ZXTP25012EZ	-12	-4.5	-10	2.4	500	-0.01	40	-4.5	-70	-1/-100	-355	-2/-40	310	45	SOT89
ZXT13P12DE6	-12	-4	-15	1.1	300	-1	200	-4	90	-1/-10	250	-4/-50	55	37	SOT23-6
ZXTP07012EFF	-12	-4	-8	1.5	500	-0.01	230	-4	-165	-1/-5	-350	-2/-10	100	50	SOT23F
ZXTP25012EFH	-12	-4	-10	1.25	500	-0.01	300	-1	-65	-1/-100	-350	-2/-40	310	40	SOT23
ZTX1147A	-12	-4	-20	1	250	-0.5	170	-4	-130	-1/-6	-235	-4/-70	115	-	E-Line
ZXTP717MA	-12	-4	-12	1.5	300	-0.1	60	-8	-17	-0.1/-10	-140	-1/-10	100	60	DFN2020B-3
ZXT10P12DE6	-12	-3	-10	1.1	300	-0.1	180	-2.5	-17	-0.1/-10	-150	-1.5/-50	80	65	SOT23-6
FCX1147A	-12	-3	-20	2	250	-0.5	150	-5	-110	-0.5/-2.5	-250	-3/-30	115	53	SOT89
FZT717	-12	-3	-10	2	300	-0.1	160	-3	-150	-1/-10	-320	-3/-50	80	-	SOT223
FCX717	-12	-3	-10	1	300	-0.1	160	-3	-20	-0.1/-10	-320	-3/-50	80	77	SOT89
2DB1713	-12	-3	-6	2	270	-0.5	-	-	-250	-1.5/-30	-	-	180	-	SOT89
FMMT717	-12	-2.5	-10	0.625	300	-0.1	180	-2.5	-17	-0.1/-10	-170	-1.5/-50	80	72	SOT23
2DB1697	-12	-2	-4	2	270	-0.2	-	-	-180	-1/-50	-	-	140	-	SOT89
2DB1689	-12	-1.5	-3	0.5	270	-0.2	-	-	-200	-0.5/-25	-	-	300	-	SOT323
FMMTL717	-12	-1.25	-4	0.5	300	-0.1	180	-1	-140	-0.5/-20	-290	-1.25/-50	205	160	SOT23
ZUMT717	-12	-1.25	-3	0.385	300	-0.1	125	-1.25	-40	-0.1/-10	-215	-1/-50	220	150	SOT323
ZXTP23015CFH	-15	-5	-10	1.25	200	-0.5	140	-6	-36	-1/-100	-120	-3/-60	270	20	SOT23
ZXTP25015DFH	-15	-4	-10	1.25	200	-1	90	-4	-150	-1/-10	-175	-2/-40	295	33	SOT23
FZT788B	-15	-3	-8	2	400	-1	150	-6	-250	-1/-5	-500	-3/-50	100	93	SOT223
ZTX788B	-15	-3	-8	1	-400	-1	-150	-6	-150	-0.5/-2.5	-250	-1/-5	100	-	E-Line
ZTX788A	-15	-3	-10	1	250	-1	80	-10	-35	-0.1/-2	-320	-2/-20	100	-	E-Line
DXTP19020DP5	-20	-8	-15	3	300	-0.1	200	-2	-130	-1/-10	-145	-2/-40	176	28	PowerDI®5
ZXTP19020DG	-20	-8	-15	3	300	-0.1	200	-2	-130	-1/-10	-145	-2/-40	176	28	SOT223
FZT948	-20	-6	-20	3	100	-1	60	-10	-130	-0.5/-10	-450	-6/-250	80	-	SOT223
ZXTP19020DZ	-20	-6	-15	2.4	300	-0.1	65	-6	-130	-1/-10	-145	-2/-40	176	28	SOT89
ZXTP25020DG	-20	-6	-10	3	300	-0.01	200	-1	-65	-1/-100	-245	-2/-40	290	42	SOT223
ZXTP19020DFF	-20	-5.5	-15	1.5	300	-0.1	85	-5.5	-125	-1/-10	-140	-2/-40	176	26	SOT23F
ZXTP19020CFF	-20	-5	-10	1.5	200	-0.1	110	-5	-70	-1/-20	-120	-2/-40	200	21	SOT23F
ZXTP25020DZ	-20	-5	-10	2.4	300	-0.01	45	-5	-65	-1/-100	-245	-2/-40	290	39	SOT89
2DB1386Q	-20	-5	-10	1	120	-0.5	-	-	-1000	-4/-100	-	-	100	-	SOT89
2DB1386R	-20	-5	-10	1	180	-0.5	-	-	-1000	-4/-100	-	-	100	-	SOT89
ZXTP25020CFF	-20	-4.5	-10	1.5	200	-0.01	85	-4	-110	-1/-20	-185	-2/-40	285	41	SOT23F
ZTX948	-20	-4.5	-20	1.2	100	-1	60	-10	-100	-0.5/-10	-310	-5/-300	80	-	E-Line
ZXT13P20DE6	-20	-4	-10	1.1	300	-1	200	-4	-15	-0.1/-10	-130	-1/-10	90	47	SOT23-6
ZXTP25020DFH	-20	-4	-10	1.25	300	-0.01	200	-1	-60	-1/-100	-240	-2/-40	290	39	SOT23
ZXTP25020CFH	-20	-4	-10	1.25	200	-0.01	85	-4	-55	-1/-100	-170	-2/-40	285	34	SOT23
ZXTP25020BFH	-20	-4	-10	1.25	100	-0.01	80	-1	-60	-1/-100	-190	-2/-40	250	32	SOT23
ZXST2E6	-20	-3.5	-10	1.1	300	-1	150	-3.5	-140	-1/-10	-120	-3.5/-350	110	31	SOT23-6
ZXTP718MA	-20	-3.5	-6	1.5	300	-0.1	150	-2	-220	-1/-20	-250	-1.5/-50	150	64	DFN2020B-3
2DB1424R	-20	-3	-5	1	180	-0.1	-	-	-500	-2/-100	-	-	220	-	SOT89
ZXT10P20DE6	-20	-2.5	-6	1.1	300	-0.1	150	-2	-220	-1/-20	-250	-1.5/-50	150	96	SOT23-6
ZTX718	-20	-2.5	-6	1	300	-0.1	150	-2	-40	-0.1/-10	-220	-1.5/-50	150	96	E-Line
FCX718	-20	-2.5	-6	1	300	-0.1	150	-2	-40	-0.1/-10	-220	-1.5/-50	150	96	SOT89
DSS20200L	-20	-2	-4	1.2	250	-0.5	150	-2	-120	-1/-10	-180	-2/-200	100	-	SOT23
DSS5220V	-20	-2	-4	0.6	220	-0.1	155	-1	-80	-0.1/-1	-220	-1/-50	150	-	SOT563

PNP Transistors up to 25V (continued)



Part Number	V _{CEO} V	I _C A	I _{CM} A	P _D W	h _{FE}				V _{CE(sat)}				f _T MHz	R _{CE(sat)} mΩ	Package
					Min.	@ I _C A	Min.	@ I _C A	Max. mV	@ I _C /I _B A/mA	Max. mV	@ I _C /I _B A/mA			
FMMT718	-20	-1.5	-6	0.625	300	-0.1	150	-2	-40	-0.1/-10	-220	-1.5/-50	150	97	SOT23
ZXTP25020DFL	-20	-1.5	-6	0.35	300	-0.01	160	-1.5	-225	-1/-10	-195	-1.5/-30	290	54	SOT23
ZXTP26020DMF	-20	-1.25	-4	1	300	-0.1	140	-1.5	-80	-0.1/-1	-155	-1/-50	200	125	DFN1411-3
FMMTL718	-20	-1	-2	0.5	300	-0.1	120	-1	-50	-0.1/-10	-180	-0.5/-20	265	210	SOT23
ZUMT718	-20	-1	-3	0.385	300	-0.1	100	-1	-45	-0.1/-10	-175	-0.5/-20	210	200	SOT323
FZT1149A	-25	-4	-10	2.5	250	-0.5	115	-5	-170	-0.5/-3	-260	-2/-30	135	-	SOT223
ZTX1149A	-25	-3	-10	1	250	-0.5	115	-5	-170	-0.5/-3	-260	-2/-30	135	-	E-Line
FCX1149A	-25	-3	-10	2	250	-0.5	115	-5	-170	-0.5/-3	-240	-1/-7	135	67	SOT89
FZT789A	-25	-3	-6	2	250	-1	200	-2	-250	-1/-10	-450	-2/-20	100	93	SOT223
FZT749	-25	-3	-8	2	100	-1	75	-2	-300	-1/-100	-600	-3/-300	100	-	SOT223
FCX789A	-25	-3	-8	1	230	-1	75	-6	-190	-1/-10	-320	-3/-100	100	-	SOT89
ZXTP749F	-25	-3	-6	0.72	200	-0.1	100	-2	-150	-1/-100	-350	-3/-300	-	87	SOT23
ZTX789A	-25	-3	-8	1	250	-1	100	-6	-250	-1/-10	-450	-2/-20	100	-	E-Line
ZTX749	-25	-2	-6	1	100	-1	75	-2	-300	-1/-100	-500	-2/-200	100	-	E-Line
2DB1119S	-25	-1	-2	1	140	-0.05	40	-1	-700	-0.5/50	-	-	200	-	SOT89

THE DIODES ADVANTAGE

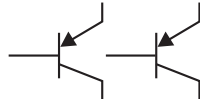
Did you know? PNP transistors in DFN packaging are the preferred choice in battery charging applications.



Product features

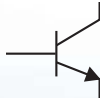
- 20V devices.
- High gain to minimize Base drive requirements.
- No Schottky diode required for reverse blocking.
- Single and dual devices to cover various charging topologies.
- Just 2 x 2 mm for single device or 3 x 2mm footprint for dual device.

Dual PNP Transistors up to 25V



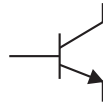
Part Number	V _{CEO} V	I _C A	I _{CM} A	P _D W	h _{FE}				V _{CE(sat)}				f _T MHz	R _{CE(sat)} mΩ	Package
					Min.	@ I _C A	Min.	@ I _C A	Max. mV	@ I _C /I _B A/mA	Max. mV	@ I _C /I _B A/mA			
ZXTD717MC	-12	-4	-12	1.5	300	-0.1	180	-2.5	-140	-1/-10	-300	-3/-50	110	60	DFN3020B-8
ZXT12P12DX	-12	-3	-15	1.25	300	-1	200	-3	-85	-1/-20	-270	-3/-30	85	47	MSOP-8
ZXTD718MC	-20	-3.5	-6	1.5	300	-0.1	150	-2	-220	-1/-20	-250	-1.5/-50	180	64	DFN3020B-8
ZDT749	-25	-2	-6	2.75	100	-1	15	-6	-300	-1/-100	-500	-2/-200	160	-	SM8

NPN Transistors 30V to 50V



Part Number	V _{CEO} V	I _C A	I _{CM} A	P _D W	h _{FE}				V _{CE(sat)}				f _T MHz	R _{CE(sat)} mΩ	Package
					Min.	@ I _C A	Min.	@ I _C A	Max. mV	@ I _C /I _B A/mA	Max. mV	@ I _C /I _B A/mA			
ZXT849K	30	7	20	4.2	100	1	40	20	80	1/20	280	7/350	100	33	TO252-3
ZXTN2007G	30	7	20	3	100	1	100	7	65	1/20	220	6.5/300	140	28	SOT223
ZXTN2007Z	30	6	20	2.1	100	1	100	7	60	1/20	115	2/20	140	23	SOT89
ZTX849	30	5	20	1.2	100	1	100	5	100	1/20	220	5/200	100	-	E-Line
2DD2679	30	2	4	0.9	270	0.2	-	-	370	1.5/75	-	-	240	-	SOT89
FZT489	30	1	4	2	100	1	60	2	300	1/100	600	2/200	150	-	SOT223

NPN Transistors 30V to 50V (continued)



Part Number	V _{CEO} V	I _C A	I _{CM} A	P _D W	h _{FE}				V _{CE(sat)}				f _T MHz	R _{CE(sat)} mΩ	Package
					Min.	@ I _C A	Min.	@ I _C A	Max. mV	@ I _C /I _B A/mA	Max. mV	@ I _C /I _B A/mA			
ZTX449	30	1	2	1	100	0.5	40	2	500	1/100	1000	2/200	150	-	E-Line
FMMT489	30	1	4	0.5	100	1	20	4	300	1/100	600	2/100	150	175	SOT23
FMMT449	30	1	2	0.5	100	0.5	40	2	500	1/100	1000	2/200	150	250	SOT23
2DD2656	30	1	2	0.3	270	0.1	-	-	350	0.5/25	-	-	270	-	SOT32
2DD1766P	32	2	2.5	1	82	0.5	-	-	800	2/200	-	-	220	-	SOT8
2DD1766Q	32	2	2.5	1	120	0.5	-	-	800	2/200	-	-	220	-	SOT89
2DD1766R	32	2	2.5	1	180	0.5	-	-	800	2/200	-	-	220	-	SOT89
2DD1664P	32	1	2	1	82	0.1	-	-	400	0.5/50	-	-	280	-	SOT89
2DD1664Q	32	1	2	1	120	0.1	-	-	400	0.5/50	-	-	280	-	SOT89
2DD1664R	32	1	2	1	180	0.1	-	-	400	0.5/50	-	-	280	-	SOT89
FZT1051A	40	5	10	2.5	270	1	130	5	120	1/10	340	5/100	155	50	SOT223
ZXTN25040DZ	40	5	10	1.8	300	1	20	5	215	1/10	260	5/500	190	36	SOT89
DSS4540X	40	4	10	2	300	1	100	5	120	1/10	190	4/200	70	37	SOT89
ZTX1051A	40	4	10	1	300	1	45	10	110	1/10	210	4/100	155	-	E-Line
ZXTN25040DFH	40	4	10	1.25	300	1	30	4	210	1/10	190	4/400	190	35	SOT23
DJT4031N	40	3	5	1.2	200	1	100	3	150	1/10	300	3/300	105	100	SOT223
FCX1051A	40	3	10	1	270	1	40	10	120	1/10	340	5/100	155	57	SOT89
DSS4240T	40	2	3	0.6	300	0.5	150	2	100	0.5/5	180	1/50	100	60	SOT23
DSS4240V	40	2	3	0.6	300	0.5	75	2	100	0.5/5	190	1/100	150	190	SOT563
ZXTN25040DFL	40	1.5	6	0.35	300	1	25	4	80	0.5/10	185	1.5/30	190	59	SOT23
FZT491A	40	1	2	2	300	0.5	35	2	300	0.5/50	500	1/100	150	-	SOT223
FCX491A	40	1	2	1	300	0.5	35	2	300	0.5/50	500	1/100	150	-	SOT89
FMMT491A	40	1	2	0.5	300	0.5	200	1	300	0.5/50	500	1/100	150	195	SOT23
ZXTN2040F	40	1	2	0.35	300	0.5	200	1	200	0.1/1	300	0.5/50	150	-	SOT23
DSS4140U	40	1	2	0.4	300	0.5	200	1	250	0.5/50	500	1/100	150	500	SOT323
DSS4140V	40	1	3	0.6	300	0.5	200	1	110	0.5/50	440	2/200	150	190	SOT563
ZXTN07045EFF	45	4	6	1.5	400	1	70	4	230	1/5	270	2/20	150	50	SOT23F
ZXT690BK	45	3	6	3.9	400	1	60	3	360	1/5	320	2/40	150	77	TO252-3L
DXT690BP5	45	3	6	3.2	400	1	150	2	360	1/5	320	2/40	150	77	PowerDI®5
FZT690B	45	3	6	2	400	1	150	2	100	0.1/0.5	500	1/5	150	125	SOT223
FCX690B	45	2	6	2	400	1	150	2	80	0.1/0.5	300	1/5	150	-	SOT8
ZTX690B	45	2	6	1	400	1	150	2	100	0.1/0.5	500	1/5	150	-	E-Line
ZTX450	45	1	2	1	100	0.15	15	1	350	0.15/15	-	-	150	-	E-Line
ZXTN2031F	50	5	12	1.2	200	0.5	80	5	40	1/100	110	2/40	125	24	SOT23
ZXT13N50DE6	50	4	10	1.1	300	1	100	4	100	1/10	200	3/30	115	36	SOT23-6
ZXTN25050DFH	50	4	10	1.25	240	1	20	4	60	1/100	250	2/40	200	40	SOT23
ZXTN619MA	50	4	6	1.5	300	0.2	100	2	100	1/5	220	2/50	100	68	DFN2020B-3
ZXT10N50DE6	50	3	6	1.1	300	0.2	100	2	200	1/10	300	3/100	100	75	SOT23-6
FCX619	50	3	6	1.5	300	0.2	100	2	220	1/10	260	2/50	100	87	SOT89
2DC4672	50	3	6	0.9	82	0.5	45	1.5	350	1/50	-	-	180	-	SOT89
FMMT619	50	2	6	0.625	300	0.2	100	2	200	1/10	220	2/50	100	75	SOT23
FMMTL619	50	1.25	2	0.5	300	0.2	100	1	45	0.1/10	180	0.5/25	180	160	SOT23
ZUMT619	50	1	2	0.385	300	0.1	75	1	35	0.1/10	200	0.5/10	215	160	SOT323
2DC2412R	50	0.15	-	0.3	180	0.01	-	-	400	0.05/5	-	-	180	-	SOT23
2DC4617Q	50	0.15	-	0.15	120	0.001	-	-	400	0.05/5	-	-	180	-	SOT523
2DC4617QLP	50	0.15	0.2	0.25	120	0.001	-	-	200	0.05/5	-	-	100	-	DFN1006-3
2DC4617R	50	0.15	-	0.15	180	0.001	-	-	400	0.05/5	-	-	180	-	SOT523
2DC4617S	50	0.15	-	0.15	270	0.001	-	-	400	0.05/5	-	-	180	-	SOT523

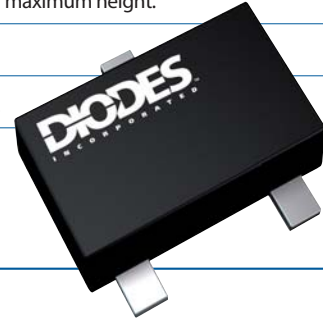
SOT23F

Did you know? The ZXTN19020CFF is rated at 5.5A continuous current ratings in a SOT23 foot print.

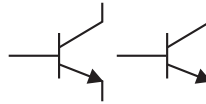


Product features

- SOT23F (flat) package outline.
- Low profile package with 1mm maximum height.
- 1.5W rating.
- Best in class saturation voltage.
- NPN & PNP parts ranging in voltage to 400V.

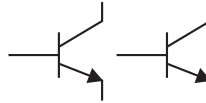


Dual NPN Transistors 30V to 50V



Part Number	V _{CEO} V	I _C A	I _{CM} A	P _D W	h _{FE}				V _{CE(sat)}				f _T MHz	R _{CE(sat)} mΩ	Package
					Min.	@ I _C A	Min.	@ I _C A	Max. mV	@ I _C /I _B A/mA	Max. mV	@ I _C /I _B A/mA			
ZXTN619MA	50	4	6	1.5	300	0.2	100	2	100	1/5	220	2/50	100	68	DFN2020B-3
ZXT12N50DX	50	3	10	1.25	300	1	150	3	120	1/10	250	3/50	132	45	MSOP-8
ZXTD2090E6	50	1	2	1.1	300	0.1	75	1	80	0.25/10	270	1/50	215	160	SOT23-6
ZXTD09N50DE6	50	1	2	1.1	300	0.1	75	1	80	0.25/10	270	1/50	215	160	SOT23-6

NPN & PNP Transistors 30V to 50V



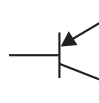
Part Number	V _{CEO} V	I _C A	I _{CM} A	P _D W	h _{FE}				V _{CE(sat)}				f _T MHz	R _{CE(sat)} mΩ	Package
					Min.	@ I _C A	Min.	@ I _C A	Max. mV	@ I _C /I _B A/mA	Max. mV	@ I _C /I _B A/mA			
ZXTC2045E6	30 -30	1.5 -1.5	5 -5	1.1	180 100	0.1 -0.1	-	-	375 -375	0.75/15 -0.75/-15	-	-	-	-	SOT23-6
ZXTC2063E6	40 -40	3.5 -3	9 -9	1.1	280 200	1 -1	40 20	3.5 -3	110 -290	1/20 -1/-20	220 -260	2/40 -3/-300	190 270	38 58	SOT23-6
ZXTC4591AMC	40 -40	2 -1.5	3 -3	1.5	300 250	0.5 -0.5	35 30	2 -2	300 -350	0.5/50 -0.5/-20	500 -500	1/100 -1/-100	150 150	195 350	DFN3020B-8
ZDT6790	45 -40	2 -2	6 -6	2.75	400 250	1 -0.5	150 150	2 -2	100 -250	0.1/0.5 -0.5/-5	500 -450	1/5 -1/-10	150 100	- -	SM8
ZXTC6719MC	50 -40	4 -3	6 -4	1.5	300 300	0.2 -0.1	100 60	2 -1.5	100 -220	1/5 -1/-50	220 -300	2/50 -1.5/-100	100 150	68 104	DFN3020B-8

PNP Transistors 30V to 50V



Part Number	V _{CEO} V	I _C A	I _{CM} A	P _D W	h _{FE}				V _{CE(sat)}				f _T MHz	R _{CE(sat)} mΩ	Package
					Min.	@ I _C A	Min.	@ I _C A	Max. mV	@ I _C /I _B A/mA	Max. mV	@ I _C /I _B A/mA			
ZXTP2008G	-30	-5.5	-20	3	100	-1	70	-5	-60	-1/-100	-210	-5.5/-500	110	31	SOT223
ZXTP2008Z	-30	-5.5	-20	2.1	100	-1	70	-5	-80	-1/-20	-80	-2/-200	110	24	SOT89
ZTX949	-30	-4.5	-20	1.2	100	-1	75	-5	-100	-1/-20	-320	-5/-300	100	-	E-Line
DMJT9435	-30	-3	-5	1.2	110	-1.2	90	-3	-275	-1.2/-20	-550	-3/-300	160	183	SOT223
2DB1714	-30	-2	-4	0.9	270	-0.2	-	-	-370	-1.5/-75	-	-	200	-	SOT89
FZT589	-30	-1	-2	2	100	-0.5	40	-2	-350	-1/-100	-650	-2/-200	100	-	SOT223
FCX589	-30	-1	-2	1	100	-0.5	80	-1	-350	-1/-100	-650	-2/-200	100	-	SOT89

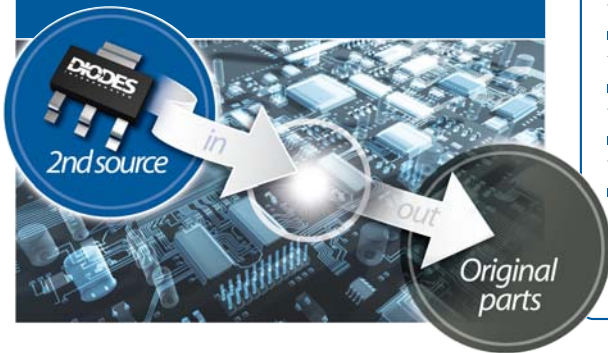
PNP Transistors 30V to 50V (continued)



Part Number	V _{CEO} V	I _C A	I _{CM} A	P _D W	h _{FE}				V _{CE(sat)}				f _T MHz	R _{CE(sat)} mΩ	Package
					Min.	@ I _C A	Min.	@ I _C A	Max. mV	@ I _C /I _B A/mA	Max. mV	@ I _C /I _B A/mA			
ZTX549	-30	-1	-2	1	80	-1	40	-2	-500	-1/-100	-750	-2/-200	100	-	E-Line
FMMT589	-30	-1	-2	0.5	100	-0.5	80	-1	-250	-0.5/-50	-350	-1/-100	100	250	SOT23
2DB1694	-30	-1	-2	0.3	270	-0.1	-	-	380	-0.5/-25	-	-	300	-	SOT323
2DB1188P	-32	-2	-3	1	82	-0.5	-	-	-800	-2/-200	-	-	120	-	SOT89
2DB1188Q	-32	-2	-3	1	120	-0.5	-	-	-800	-2/-200	-	-	120	-	SOT89
2DB1188R	-32	-2	-3	1	180	-0.5	-	-	-800	-2/-200	-	-	120	-	SOT89
2DB1132P	-32	-1	-2	1	82	-0.1	-	-	-500	-0.5/-50	-	-	190	-	SOT89
2DB1132Q	-32	-1	-2	1	120	-0.1	-	-	-500	-0.5/-50	-	-	190	-	SOT89
2DB1132R	-32	-1	-2	1	180	-0.1	-	-	-500	-0.5/-50	-	-	190	-	SOT89
ZXTP2009Z	-40	-5.5	-15	2.1	200	-0.5	110	-5.5	-165	-1/-10	-175	-3.5/-175	152	29	SOT89
ZX5T3Z	-40	-5.5	-15	2.1	200	-0.5	170	-2	-70	-1/50	-175	-2/-40	152	29	SOT89
ZXT790AK	-40	-3	-6	3.9	250	-0.5	80	-3	-170	-0.5/-5	-450	-2/-50	100	83	TO252-3L
DXT790AP5	-40	-3	-6	3.2	250	-0.5	80	-3	-350	0.1	-450	-2/-50	100	125	PowerDI [®] 5
FZT1151A	-40	-3	-5	2.5	250	-0.5	100	-3	-220	-1/-20	-300	-3/-250	145	-	SOT223
DJT4030P	-40	-3	-5	1.2	200	-1	100	-3	-150	-0.5/-5	-500	-3/-300	150	167	SOT223
FZT790A	-40	-3	-6	2	250	-0.5	150	-2	-250	-0.5/-5	-450	-1/-10	100	125	SOT223
FCX1151A	-40	-3	-5	2	250	-0.5	100	-3	-220	-1/-20	-300	-3/-250	145	66	SOT89
ZXT13P40DE6	-40	-3	-10	1.1	300	-1	100	-3	-200	-1/-20	-190	-2/-100	115	58	SOT23-6
ZXTP25040DZ	-40	-3	-9	2.4	200	-1	20	-3.5	-265	-1/-20	-350	-3.5/-350	270	55	SOT89
ZXTP07040DFF	-40	-3	-6	1.5	250	-0.5	80	-3	-180	-0.5/-5	-540	-2/-40	100	67	SOT23F
ZXTP25040DFH	-40	-3	-9	1.25	200	-1	30	-3	-260	-1/-20	-220	-3/-300	270	55	SOT23
ZXTP720MA	-40	-3	-4	1.5	300	-0.1	60	-1.5	-220	-1/-50	-300	-1.5/-100	150	104	DFN2020B-3
FCX790A	-40	-2	-6	2	250	-0.5	150	-2	-250	-0.5/-5	-350	-1/-10	100	-	SOT89
ZXT10P40DE6	-40	-2	-4	1.1	300	-0.1	60	-1.5	-40	-0.1/-10	-300	-1.5/-50	150	105	SOT23-6
ZTX790A	-40	-2	-6	1	250	-0.5	150	-2	-250	-0.5/-5	-450	-1/-10	100	-	E-Line
DSS5240T	-40	-2	-3	0.6	260	-0.5	100	-2	-110	-0.5/-50	-225	-1/-50	100	90	SOT23
DSS5240V	-40	-1.8	-3	0.6	300	-0.1	50	-2	-145	-0.5/-50	-250	-1/-100	150	250	SOT563
FMMT720	-40	-1.5	-4	0.625	300	-0.1	60	-1.5	-40	-0.1/-10	-220	-1/-50	150	163	SOT23
ZXTP25040DFL	-40	-1.5	-5	0.35	300	-0.1	120	-1.5	-95	-0.5/-20	-190	-1.5/-75	270	82	SOT23
FZT591A	-40	-1	-2	2	250	-0.5	160	-1	-200	-0.1/-1	-500	-1/-100	150	350	SOT223
FCX591A	-40	-1	-2	1	250	-0.5	160	-1	-200	-0.1/-1	-500	-1/-100	150	-	SOT89
FMMT591A	-40	-1	-2	0.5	250	-0.5	160	-1	-200	-0.1/-1	-500	-1/-100	150	350	SOT23
ZXTP2041F	-40	-1	-2	0.35	250	-0.5	160	-1	-200	-0.1/-1	-500	-1/-100	150	350	SOT23
DSS5140U	-40	-1	-2	0.4	300	-0.1	160	-1	-200	-0.1/-1	-500	-1/-100	150	-	SOT323
DSS5140V	-40	-1	-2	0.6	300	-0.1	160	-1	-140	-0.1/-1	-310	-1/-100	150	-	SOT563
ZUMT720	-40	-0.75	-1	0.385	300	-0.1	40	-0.75	-65	-0.1/-10	-200	-0.5/-50	220	240	SOT323
ZTX550	-45	-1	-2	1	100	-0.15	15	-1	-350	-0.15/-15	-	-	150	-	E-Line
ZXTP2025F	-50	-5	-10	1.2	200	-0.5	70	-5	-60	-1/-100	-230	-2/-40	190	30	SOT23
2DA1797	-50	-3	-6	0.9	82	-0.5	-	-	-350	-1/-50	-	-	160	-	SOT89
2DB1184Q	-50	-3	-4.5	1.2	120	-0.5	-	-	1000	-2/-200	-	-	110	-	TO252-3L
DPLS350E	-50	-3	-5	1	200	-1	100	-2	-180	-1/-50	-300	-2/-200	100	67	SOT223
DPLS350Y	-50	-3	-5	1	200	-0.5	130	-2	-180	-1/-50	-270	-2/-200	100	67	SOT89
2DA12130	-50	-2	-	1	70	-0.5	20	-2	-500	-1/-50	-	-	160	-	SOT89
2DA1213Y	-50	-2	-	1	120	-0.5	20	-2	-500	-1/-50	-	-	160	-	SOT89
2DA1774Q	-50	-0.15	-	0.15	120	-0.001	-	-	-500	-0.05/-5	-	-	140	-	SOT523
2DA1774R	-50	-0.15	-	0.15	180	-0.001	-	-	-500	-0.05/-5	-	-	140	-	SOT523
2DA1774S	-50	-0.15	-	0.15	270	-0.001	-	-	-500	-0.05/-5	-	-	140	-	SOT523
2DA1774QLP	-50	-0.1	-0.2	0.25	120	-0.001	-	-	-200	-0.05/-5	-	-	100	-	DFN1006-3

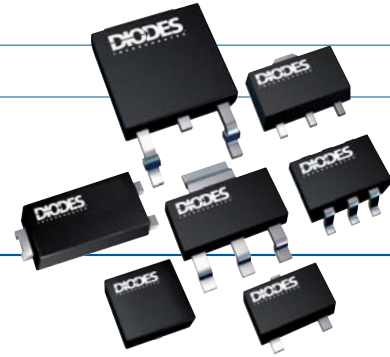
Popular Industry Parts

Did you know? Diodes offers competitive form, fit & function replacements to popular industry transistors.

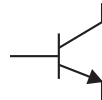


Product features

- True second sources to PBSS and NSS part nos.
- Wide selection of surface mount packages covered.
- AECQ101 qualified.
- Fully RoHS compliant.
- 'Green' halogen free.

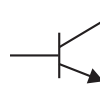


NPN Transistors 55V to 100V



Part Number	V _{CEO} V	I _C A	I _{CM} A	P _D W	h _{FE}				V _{CE(sat)}				f _T MHz	R _{CE(sat)} mΩ	Package
					Min.	@ I _C A	Min.	@ I _C A	Max. mV	@ I _C /I _B A/mA	Max. mV	@ I _C /I _B A/mA			
ZXTN1905SDZ	55	6	10	2.1	250	1	30	6	70	1/50	350	2/20	140	28	SOT89
ZXTN19060CG	60	7	12	3	200	0.1	25	7	155	1/10	300	7/700	130	30	SOT223
DXT2010P5	60	6	20	3.2	100	2	55	5	70	1/50	135	2/50	130	35	PowerDI®5
ZXTN2010G	60	6	20	3	100	2	55	5	70	1/50	135	2/50	130	35	SOT223
DSS60601MZ4	60	6	12	1.2	120	1	50	6	60	1/100	220	3/60	100	50	SOT223
ZXTN19060CFF	60	5.5	12	1.5	200	0.1	30	60	150	1/10	175	5/550	130	26	SOT23F
ZXTN2010Z	60	5	20	2.1	100	2	55	5	65	1/50	125	2/50	130	30	SOT89
ZXTN2018F	60	5	12	1.2	100	2	40	5	55	1/50	170	5/250	130	25	SOT23
ZXTN25060BZ	60	5	10	1.8	90	1	45	2	90	1/50	230	4/400	185	48	SOT89
ZXTN2010A	60	4.5	15	1	100	2	55	5	65	1/50	130	2/50	130	34	E-Line
ZXTN25060BFH	60	3.5	10	1.25	90	1	25	3.5	95	0.5/10	65	1/100	185	43	SOT23
FZT651	60	3	6	2	100	0.5	40	2	300	1/100	600	3/300	175	-	SOT223
DXT651	60	3	6	1	100	0.5	40	2	300	1/100	600	3/300	200	-	SOT89
ZTX651	60	2	6	1	100	0.5	40	2	300	1/100	500	2/200	175	-	E-Line
FZT491	60	1	2	2	100	0.5	30	2	250	0.5/50	500	1/100	150	-	SOT223
FCX491	60	1	2	1	100	0.5	30	2	250	0.5/50	500	1/100	150	-	SOT89
ZTX451	60	1	2	1	50	0.15	10	1	350	0.15/15	-	-	150	-	E-Line
FMMT491	60	1	2	0.5	100	0.5	80	1	150	0.5/50	250	1/100	150	160	SOT23
DNLS160	60	1	2	0.3	200	0.5	100	1	140	0.5/50	250	1/100	150	140	SOT23
ZXTN2038F	60	1	2	0.35	100	0.5	80	1	200	0.1/2	250	0.5/50	150	-	SOT23
FMMT493A	60	1	2	0.5	500	0.15	100	0.5	250	0.5/50	500	1/100	150	-	SOT23
FMMT451	60	1	2	0.5	50	0.15	10	1	350	0.15/15	-	-	150	400	SOT23
DSS4160U	60	1	2	0.4	200	0.5	100	1	150	0.5/50	280	1/100	150	280	SOT323
ZUMT491	60	1	2	0.5	100	0.5	-	-	250	0.5/50	500	1/100	-	-	SOT323
DSS4160V	60	1	2	0.6	200	0.5	100	1	140	0.5/50	250	1/100	150	250	SOT563
FZT692B	70	2	5	2	400	0.5	150	1	500	1/10	500	2/100	150	-	SOT223
ZTX692B	70	1	2	1	400	0.5	150	1	150	0.1/0.5	500	1/10	150	-	E-Line
ZXT1053AK	75	5	10	3.4	300	1	50	5	160	1/10	460	5/200	140	70	TO252-3L
FZT1053A	75	4.5	10	2.5	300	1	40	4.5	200	1/10	440	4.5/200	140	78	SOT223
FCX1053A	75	3	10	2	300	0.5	40	4.5	200	1/10	210	2/100	140	78	SOT89
ZTX1053A	75	3	10	1	300	1	100	3	150	1/10	250	3/100	140	-	E-Line
FMMT620	80	1.5	5	0.625	300	0.2	60	1.5	60	0.5/50	185	1/20	100	90	SOT23
ZXTN620MA	80	3.5	5	1.5	300	0.2	60	1.5	60	0.5/50	200	1.5/50	100	68	DFN2020B-3
DXT2011P5	100	6	10	3.2	100	2	30	5	65	1/100	220	5/500	130	36	PowerDI®5

NPN Transistors 55V to 100V (continued)

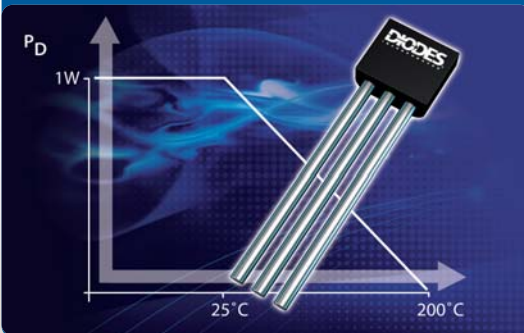


Part Number	V _{CEO} V	I _C A	I _{CM} A	P _D W	h _{FE}				V _{CE(sat)}				f _T MHz	R _{CE(sat)} mΩ	Package
					Min.	@ I _C A	Min.	@ I _C A	Max. mV	@ I _C /I _B A/mA	Max. mV	@ I _C /I _B A/mA			
ZXTN2011G	100	6	10	3	100	2	30	5	65	1/100	220	5/500	130	36	SOT223
ZXTN19100CG	100	5.5	10	3	200	0.1	130	1	140	1/20	430	5.5/550	150	43	SOT223
ZXTN19100CZ	100	5.25	10	2.4	200	0.1	130	1	65	1/100	140	1/20	150	44	SOT89
ZXTN2011Z	100	4.5	10	2.1	100	2	30	5	60	1/100	115	2/100	130	31	SOT89
ZXTN19100CFF	100	4.5	6	1.5	200	0.1	130	1	135	1/20	235	4.5/450	150	38	SOT23F
ZTX853	100	4	10	1.2	100	2	50	4	150	2/100	200	4/400	130	-	E-Line
ZXTN2020F	100	4	12	1.2	100	1	35	4	50	1/100	150	4/400	130	30	SOT23
MJD31C	100	3	5	1.56	25	1	10	3	1200	3/375	-	-	3	-	TO252-3L
ZXTN25100DG	100	3	3.5	3	300	0.01	40	1	100	1/100	500	3/600	175	85	SOT223
ZXTN25100BFH	100	3	9	1.25	100	0.01	50	1	135	0.5/10	250	3/200	160	67	SOT23
ZXTN25100DZ	100	2.5	3.5	2.4	300	0.01	120	0.5	170	0.5/10	245	2.5/250	175	80	SOT89
ZXTN25100DFH	100	2.5	3	1.25	300	0.01	120	0.5	170	0.5/10	95	1/100	175	86	SOT23
DXTN07100BP5	100	2	6	2	100	0.5	55	1	300	1/100	500	2/200	140	-	PowerDI®5
FZT653	100	2	6	2	100	0.5	25	2	300	1/100	500	2/200	140	-	SOT223
ZTX653	100	2	6	1	100	0.5	25	2	300	1/100	500	2/200	140	-	E-Line
FZT493	100	1	2	2	100	0.25	30	1	300	0.5/50	600	1/100	150	-	SOT223
FCX493	100	1	2	1	100	0.25	20	1	300	0.5/50	600	1/100	150	-	SOT89
ZTX453	100	1	2	1	40	0.15	10	1	700	0.15/15	-	-	150	-	E-Line
FMMT493	100	1	2	0.5	100	0.25	60	0.5	300	0.5/50	600	1/100	150	-	SOT23

THE DIODES ADVANTAGE

E-Line

Did you know? The E-Line package is rated for junction temperatures up to 200°C.



Product features

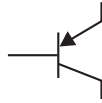
- Smaller body size yet higher power rating than TO92.
- 1 Watt power rating at 25°C.
- Derating to 200°C gives higher power rating at high ambient temperatures.
- Product range up to 400V.
- Ideally suited to high temperature environments.

NPN & PNP Transistors 55V to 100V



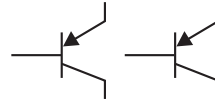
Part Number	V _{CEO} V	I _C A	I _{CM} A	P _D W	h _{FE}				V _{CE(sat)}				f _T MHz	R _{CE(sat)} mΩ	Package
					Min.	@ I _C A	Min.	@ I _C A	Max. mV	@ I _C /I _B A/mA	Max. mV	@ I _C /I _B A/mA			
ZDT6753	100 -100	2 -2	6 -6	2.75	100 100	0.5 -0.5	55 55	1 -1	300 -300	1/100 -1/-100	500 -500	2/200 -2/-200	140 100	- -	SM8
ZXTD4591E6	60 -60	1 -1	2 -2	1.1	100 100	0.5 -0.5	80 80	1 -1	250 -300	-0.5/50 -0.5/50	500 -600	1/100 -1/-100	150 150	210 355	SOT23-6
ZXTC6720MC	80 -70	3.5 -2.5	5 -3	1.5	300 300	0.2 -0.1	60 40	1.5 -1.5	60 -200	0.5/50 -0.5/20	185 -260	1/20 -1.5/-200	100 150	68 117	DFN3020B-8

PNP Transistors 55V to 100V



Part Number	V _{CEO} V	I _C A	I _{CM} A	P _D W	h _{FE}				V _{CE(sat)}				f _T MHz	R _{CE(sat)} mΩ	Package
					Min.	@ I _C A	Min.	@ I _C A	Max. mV	@ I _C /I _B A/mA	Max. mV	@ I _C /I _B A/mA			
DSS60600MZ4	-60	-6	-12	1.2	120	-1	70	-6	-70	-1/100	-250	-3/-60	100	60	SOT223
ZXT951K	-60	-6	-15	3.2	100	-2	15	-10	-90	-1/-100	-400	-6/-600	120	53	TO252-3L
DXT2012P5	-60	-5.5	-15	3.2	100	-2	10	-10	-70	-1/-100	-250	-5/-500	120	39	PowerDI®5
ZXTP2012G	-60	-5.5	-15	3	100	-2	10	-10	-70	-1/-100	-250	-5/-500	120	39	SOT223
ZXTP19060CG	-60	-5	-7	3	160	-1	20	-5	-205	-1/-20	-500	-5/-500	180	50	SOT223
ZXTP19060CZ	-60	-4.5	-7	2.4	200	-0.1	160	-1	-205	-1/-20	-165	-3/-300	180	50	SOT8
ZXTP19060CFF	-60	-4	-7	1.5	200	-0.1	160	-1	-75	-1/-100	-200	-1/-20	180	45	SOT23F
ZXTP2012Z	-60	-4.3	-15	2.1	100	-2	45	-5	-65	-1/-100	-110	-2/-200	120	32	SOT89
ZXTP2027F	-60	-4	-10	1.2	100	-2	80	-4	-60	-1/-100	-95	-2/-200	165	31	SOT23
ZXTP2012A	-60	-3.5	-15	1	100	-1	65	-4	-65	-1/-100	-115	-2/-200	120	38	E-Line
FZT751	-60	-3	-6	2	100	-0.5	40	-2	-300	-1/-100	-600	-3/-300	100	-	SOT223
DXT751	-60	-3	-6	1	100	-0.5	40	-2	-300	-1/-100	-600	-3/-300	100	-	SOT89
ZXTP25060BFH	-60	-3	-9	1.25	100	-0.01	30	-3	-135	-0.5/-10	-235	-3/-300	250	58	SOT23
ZTX751	-60	-2	-6	1	100	-0.5	40	-2	-300	-1/-100	-500	-2/-200	100	-	E-Line
FZT591	-60	-1	-2	2	100	-0.5	15	-2	-300	-0.5/-50	-600	-1/-100	150	-	SOT223
FCX591	-60	-1	-2	1	100	-0.5	80	-1	-300	-0.5/-50	-600	-1/-100	150	-	SOT89
ZTX551	-60	-1	-2	1	50	-0.15	10	-1	-350	-0.15/-15	-	-	150	-	E-Line
FMMT591	-60	-1	-2	0.5	100	-0.5	80	-1	-180	-0.5/-50	-350	-1/-100	150	295	SOT23
DPLS160	-60	-1	-2	0.3	150	-0.5	100	-1	-160	-0.1/1	-330	-1/-100	150	-	SOT23
DSS5160U	-60	-1	-2	0.4	150	-0.5	100	-1	-175	-0.1/1	-340	-1/-100	150	340	SOT323
DSS5160V	-60	-1	-2	0.6	150	-0.5	100	-1	-160	-0.1/1	-330	-1/-100	150	330	SOT563
DPBT8105	-60	-1	-2	0.6	100	-0.5	80	-1	-300	-0.5/-50	-600	-1/-100	150	-	SOT23
FMMT551	-60	-1	-2	0.5	50	-0.15	10	-1	-350	-0.15/-15	-	-	150	-	SOT23
ZUMT591	-60	-1	-2	0.5	100	-0.5	80	-1	-300	-0.5/-50	-600	-1/-100	150	-	SOT323
ZXTP2039F	-60	-1	-2	0.35	100	-0.5	80	-1	-200	-0.1/-2	-600	-1/-100	150	-	SOT23
ZXTP722MA	-70	-2.5	-3	1.5	300	-0.1	175	-1	-50	-0.1/-10	-220	-1/-100	150	117	DFN2020B-3
FZT792A	-70	-2	-5	2	250	-0.5	200	-1	-450	-0.5/-5	-500	-1/-25	100	-	SOT223
ZTX792A	-70	-2	-4	1	250	-0.5	200	-1	-450	-0.5/-5	-500	-1/-25	100	-	E-Line
FMMT722	-70	-1.5	-3	0.625	300	-0.1	175	-1	-200	-0.5/-20	-220	-1/-100	150	-	SOT23
ZXT953K	-100	-5	-10	3.2	100	-1	15	-5	-100	-1/-100	-390	-5/-500	125	67	TO252-3L
DXT2013P5	-100	-5	-10	3.2	100	-1	25	-3	-90	-1/-100	-150	-2/-200	125	60	PowerDI®5
ZXTP2013G	-100	-5	-10	3	100	-1	25	-3	-90	-1/-100	-150	-2/-200	125	60	SOT223
ZXTP2013Z	-100	-3.5	-10	2.1	100	-1	25	-3	-85	-1/-100	-135	-2/-200	125	57	SOT89
ZTX953	-100	-3.5	-10	1.2	100	-1	30	-4	-100	-1/-100	-170	-2/-200	125	-	E-Line
MJD32C	-100	-3	-5	1.56	25	-1	10	-3	-1200	-3/-375	-	-	3	-	TO252-3L
ZXTP2029F	-100	-3	-5	1.2	100	-1	40	-3	-80	-1/-100	-180	-3/-300	150	45	SOT23
ZXTP19100CG	-100	-2	-3	3	200	-0.1	20	-2	-125	-1/-100	-295	-2/-200	142	100	SOT223
ZXTP19100CZ	-100	-2	-3	2.4	200	-0.1	70	-1	-230	-1/-50	-295	-2/-200	142	100	SOT89
ZXTP19100CFF	-100	-2	-3	1.5	200	-0.1	70	-1	-130	-0.5/-20	-225	-1/-50	142	95	SOT23F
FZT753	-100	-2	-6	2	100	-0.5	55	-1	-300	-1/-100	-500	-2/-200	100	-	SOT223
ZTX753	-100	-2	-6	1	100	-0.5	55	-1	-300	-1/-100	-500	-2/-200	100	-	E-Line
ZXTP25100BFH	-100	-2	-5	1.25	100	-0.01	55	-1	-90	-0.5/-50	-130	-1/-100	200	108	SOT23
ZXTP25100CZ	-100	-1	-3	2.4	180	-0.1	110	-0.5	-210	-0.1/-1	-315	-0.5/-20	180	155	SOT89
ZXTP25100CFH	-100	-1	-3	1.25	180	-0.1	110	-0.5	-210	-0.1/-1	-310	-0.5/-20	180	150	SOT23
FMMT723	-100	-1	-2.5	0.625	300	-0.1	250	-0.5	-200	-0.5/-50	-330	-1/-150	150	-	SOT23
FZT593	-100	-1	-2	2	100	-0.25	50	-1	-200	-0.25/-25	-300	-0.5/-50	50	-	SOT223
FCX593	-100	-1	-2	1	100	-0.25	50	-1	-200	-0.25/-25	-300	-0.5/-50	50	-	SOT89
ZTX553	-100	-1	-2	1	40	-0.15	10	-1	-250	-0.15/-15	-	-	150	-	E-Line
FMMT593	-100	-1	-2	0.5	100	-0.25	50	-1	-200	-0.25/-25	-300	-0.5/-50	50	-	SOT23

Dual PNP Transistors 55V to 100V

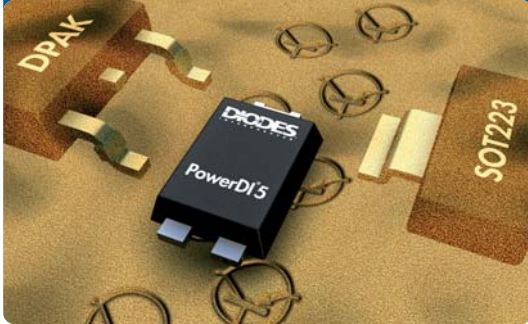


Part Number	V _{CEO} V	I _C A	I _{CM} A	P _D W	h _{FE}				V _{CE(sat)}				f _T MHz	R _{CE(sat)} mΩ	Package
					Min.	@ I _C A	Min.	@ I _C A	Max. mV	@ I _C /I _B A/mA	Max. mV	@ I _C /I _B A/mA			
ZDT751	-60	-2	-6	2.75	100	-0.5	40	-2	-300	-1/-100	-500	-2/-200	100	-	SM8

THE DIODES ADVANTAGE

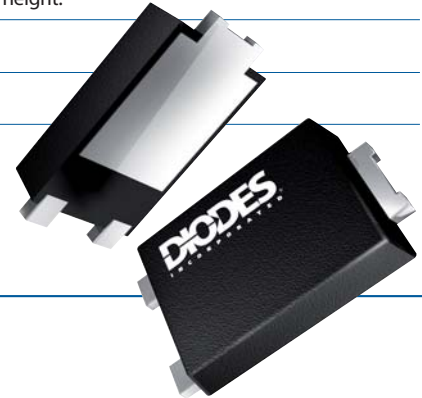
PowerDI[®]5

Did you know? PowerDI[®]5 is the latest power package to be added to the transistor portfolio.

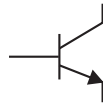


Product features

- 47% smaller footprint than SOT223; 60% smaller than DPAK (TO252).
- Only 1.1mm off the board height.
- θ_J-tab of 5.6°C/W.
- P_D rated up to 3W.
- 12 initial parts introduced.

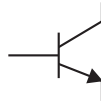


NPN Transistors >100V



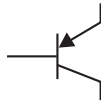
Part Number	V _{CEO} V	I _C A	I _{CM} A	P _D W	h _{FE}				V _{CE(sat)}				f _T MHz	R _{CE(sat)} mΩ	Package
					Min.	@ I _C A	Min.	@ I _C A	Max. mV	@ I _C /I _B A/mA	Max. mV	@ I _C /I _B A/mA			
FZT694B	120	1	2	2	400	0.2	150	0.4	250	0.1/0.5	500	0.4/5	130	-	SOT223
FMMT494	120	1	2	0.5	100	0.25	20	1	200	0.25/25	300	0.5/50	100	-	SOT23
ZTX694B	120	0.5	1	1	400	0.2	150	0.4	250	0.1/0.5	500	0.4/5	130	-	E-Line
FMMT624	125	1	3	0.625	300	0.2	100	1	50	0.1/10	220	0.5/10	100	-	SOT23
FMMT455	140	1	2	0.5	100	0.15	-	-	700	0.15/15	-	-	100	-	SOT23
ZTX455	140	1	2	1	100	0.15	-	-	700	0.15/15	-	-	100	-	E-Line
FZT855	150	5	10	3	100	1	15	5	65	0.5/50	110	1/100	90	-	SOT223
ZTX855	150	4	10	1.2	100	1	35	4	40	0.1/5	100	1/100	90	-	E-Line
FZT655	150	1	2	2	50	0.5	20	1	500	0.5/50	500	1/200	30	-	SOT223
FCX495	150	1	2	1	100	0.25	50	0.5	200	0.25/25	300	0.5/50	100	-	SOT89
FMMT625	150	1	3	0.625	300	0.2	30	1	200	0.1/1	300	1/50	100	-	SOT23
FMMT495	150	1	2	0.5	100	0.25	50	0.5	200	0.25/25	300	0.5/50	100	-	SOT23
DXT5551P5	160	0.6	-	2.25	80	0.01	30	0.05	150	0.01/1	200	0.05/5	100	-	PowerDI [®] 5
FZT696B	180	0.5	1	2	500	0.1	150	0.2	200	0.05/0.5	250	0.2/5	70	-	SOT223
ZTX696B	180	0.5	1	1	500	0.1	150	0.2	200	0.05/0.5	200	0.1/2	70	-	E-Line
FZT857	300	3.5	5	3	100	0.5	15	2	100	0.5/50	230	2/200	80	-	SOT223
ZTX857	300	3	5	1.2	100	0.5	15	2	100	0.5/50	140	1/100	80	-	E-Line
FZT657	300	0.5	1	2	40	0.01	50	0.1	500	0.1/10	-	-	30	-	SOT223
ZTX657	300	0.5	1	1	40	0.01	50	0.1	500	0.1/10	-	-	30	-	E-Line
FMMT497	300	0.5	1	0.5	80	0.1	20	0.25	200	0.1/10	300	0.25/25	75	-	SOT23
ZTX457	300	0.5	1	1	50	0.05	25	0.1	300	0.1/10	-	-	75	-	E-Line
DXT458P5	400	0.3	1	2.8	100	0.05	12	0.1	200	0.02/2	500	0.05/6	50	-	PowerDI [®] 5
FZT658	400	0.5	1	2	50	0.1	40	0.2	250	0.05/5	500	0.1/10	50	-	SOT223

NPN Transistors >100V (continued)



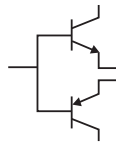
Part Number	V _{CEO} V	I _C A	I _{CM} A	P _D W	h _{FE}				V _{CE(sat)}				f _T MHz	R _{CE(sat)} mΩ	Package
					Min.	@ I _C A	Min.	@ I _C A	Max. mV	@ I _C /I _B A/mA	Max. mV	@ I _C /I _B A/mA			
FCX658A	400	0.5	1	1	100	0.01	35	0.2	200	0.1/10	-	-	50	-	SOT89
ZXTN08400BFF	400	0.5	1	1.5	100	0.05	10	0.5	70	0.05/5	170	0.3/30	40	-	SOT23F
ZTX658	400	0.5	1	1	50	0.1	40	0.2	300	0.02/1	250	0.05/5	50	-	E-Line
FZT458	400	0.3	1	2	100	0.05	12	0.1	200	0.02/2	500	0.05/6	50	-	SOT223
ZTX458	400	0.3	-	1	100	0.05	12	0.1	200	0.02/2	500	0.05/6	50	-	E-Line
FCX458	400	0.225	0.5	1	100	0.05	12	0.1	200	0.02/2	500	0.05/6	50	-	SOT89
FMMT458	400	0.225	1	0.5	100	0.05	12	0.1	200	0.02/2	500	0.05/6	50	-	SOT23
FMMT459	450	0.15	0.5	0.625	50	0.03	-	-	75	0.02/2	90	0.05/6	50	-	SOT23

PNP Transistors >100V



Part Number	V _{CEO} V	I _C A	I _{CM} A	P _D W	h _{FE}				V _{CE(sat)}				f _T MHz	R _{CE(sat)} mΩ	Package
					Min.	@ I _C A	Min.	@ I _C A	Max. mV	@ I _C /I _B A/mA	Max. mV	@ I _C /I _B A/mA			
DXTP2014P5	-140	-4	-10	3.2	100	-1	45	-3	-80	-0.5/-50	-120	-1/-100	120	92	PowerDI®5
ZXTP2014G	-140	-4	-10	3	100	-1	45	-3	-80	-0.5/-50	-120	-1/-100	120	92	SOT223
FZT955	-140	-4	-10	3	100	-1	75	-3	-120	-0.5/-50	-370	-3/-300	100	-	SOT223
ZXTP2014Z	-140	-3	-10	2.1	100	-1	45	-3	-60	-0.1/-5	-115	-1/-100	120	85	SOT89
ZXTP23140BFH	-140	-2.5	-5	1.25	100	-1	40	-2.5	-55	-0.1/5	-95	-1/-100	130	76	SOT23
ZXTP25140BFH	-140	-1	-3	1.25	100	-0.01	100	-0.1	-135	-0.1/-2	-230	-0.5/-25	75	180	SOT23
FZT795A	-140	-0.5	-1	2	250	-0.2	100	-0.3	-300	-0.2/-5	-250	-0.5/-50	100	-	SOT223
ZTX795A	-140	-0.5	-1	1	300	-0.01	250	-0.2	-300	-0.1/-1	-300	-0.2/-5	100	-	E-Line
FZT755	-150	-1	-2	2	50	-0.5	20	-1	-500	-0.5/-50	-500	-1/-200	30	-	SOT223
FMMT555	-150	-1	-2	0.5	50	-0.01	50	-0.3	-300	-0.1/-10	-	-	100	-	SOT23
FCX555	-180	-0.7	-2	2.1	100	-0.01	100	-0.1	-300	-0.1/-10	-400	-0.25/-25	100	-	SOT89
DXTP03200BP5	-200	-2	-5	3.2	100	-1	20	-2	-155	-0.5/-25	-275	-2/-400	105	135	PowerDI®5
ZXTP03200BG	-200	-2	-5	3	100	-1	20	-2	-155	-0.5/-25	-160	-1/-100	105	-	SOT223
ZXTP03200BZ	-200	-2	-5	2.4	100	-1	20	-2	-155	-0.5/-25	-160	-1/-100	105	130	SOT89
FZT796A	-200	-0.5	-1	2	300	-0.1	100	-0.4	-300	-0.1/-5	-300	-0.2/-20	100	-	SOT223
ZTX796A	-200	-0.5	-1	1	300	-0.1	250	-0.3	-200	-0.5/-2	-300	-0.1/-5	100	-	E-Line
FCX596	-200	-0.3	-1	1	100	-0.1	85	-0.25	-200	-0.1/-10	-350	-0.25/-25	150	-	SOT89
FMMT596	-200	-0.3	-1	0.5	100	-0.1	85	-0.25	-200	-0.1/-10	-350	-0.25/-25	150	-	SOT23
FZT957	-300	-1	-2	3	100	-0.5	90	-1	-165	-0.5/-100	-240	-1/-300	85	-	SOT223
ZTX957	-300	-1	-2	1.2	100	-0.5	90	-1	-100	-0.1/-10	-150	-0.5/-100	85	-	E-Line
FZT757	-300	-0.5	-1	2	40	-0.01	50	-0.1	-500	-0.1/-10	-	-	30	-	SOT223
ZTX757	-300	-0.5	-1	1	40	-0.01	50	-0.1	-500	-0.1/-10	-	-	30	-	E-Line
FMMT597	-300	-0.2	-1	0.5	100	-0.05	100	-0.1	-250	-0.05/-5	-250	-0.1/-20	75	-	SOT23
FZT958	-400	-0.5	-1.5	3	100	-0.5	90	-1	-165	-0.5/-100	-240	-1/-300	85	-	SOT223
FZT758	-400	-0.5	-1	2	50	-0.1	40	-0.2	-250	-0.05/-5	-500	-0.1/-10	50	-	SOT223
ZTX958	-400	-0.5	-1.5	1.2	100	-0.01	100	-0.5	-200	-0.1/-10	-400	-0.5/-100	85	-	E-Line
ZTX758	-400	-0.5	-1	1	50	-0.1	40	-0.2	-300	-0.02/-1	-250	-0.5/-5	50	-	E-Line
FZT558	-400	-0.2	-	2	100	-0.05	15	-0.1	-200	-0.02/-2	-500	-0.05/-6	50	-	SOT223
FCX558	-400	-0.2	-0.5	1	100	-0.05	15	-0.1	-200	-0.02/-2	-500	-0.05/-6	50	-	SOT89
ZXTP08400BFF	-400	-0.2	-1	1.5	100	-0.05	100	-0.2	-125	-0.05/-5	-220	-0.1/-10	50	-	SOT23F
FMMT558	-400	-0.15	-0.5	0.5	100	-0.05	15	-0.1	-200	-0.02/-2	-500	-0.05/-6	50	-	SOT23
FZT560	-500	-0.15	-0.5	2	100	-0.001	80	-0.05	-200	-0.02/-2	-500	-0.05/-10	60	-	SOT223
ZTX560	-500	-0.15	-0.5	1	100	-0.001	80	-0.05	-200	-0.02/-2	-500	-0.05/-10	60	-	E-Line
FMMT560	-500	-0.15	-0.5	0.5	100	-0.001	80	-0.05	-200	-0.02/-2	-500	-0.05/-10	60	-	SOT23

Gate Driver Transistors

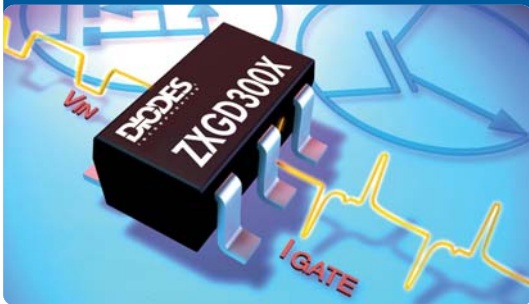


Part Number	V _{IN} Max. V	V _{CC} Max. V	I _{source} @ I _{IN} =10mA A	I _{sink} A	I _{sinkPK} Max. V	I _{IN} Max. V	Gate Driver Switching Times (typ)				@ Condition	Package
							td(rise) ns	tr ns	td(fall) ns	tf ns		
ZXGD3001E6	12	12	4.2	2.2	9	1	1.3	7.3	3	11	C _L =1nF, R _L =1Ω, V _{CC} =8V V _{IN} =6V, R _S =25Ω	SOT23-6
ZXGD3002E6	20	20	2.2	2	9	1	1.25	8.3	1.6	10.8	C _L =1nF, R _L =1Ω, V _{CC} =12V V _{IN} =10V, R _S =25Ω	SOT23-6
ZXGD3003E6	40	40	1.6	1.4	5	1	1.8	8.9	1.7	8.9	C _L =1nF, R _L =1, V _{CC} =12V V _{IN} =10V, R _S =25	SOT23-6
ZXGD3004E6	40	40	1.9	1.9	8	1	1.1	13.4	0.95	12.4	C _L =1.5nF, R _L =0.1, V _{CC} =15V V _{IN} =12.5V, R _S =25	SOT23-6

THE DIODES ADVANTAGE

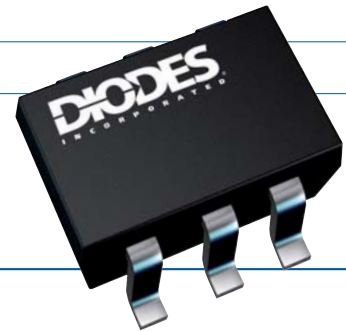
Gate driver transistors

Did you know? The ZXGD3000 series Gate driver transistors are characterized under true operating conditions.

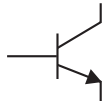


Product features

- Compact SOT23-6 package.
- Emitter follower configuration.
- Propagation delays <2ns.
- No latch up.
- Up to 1.85A source and sink current from 10mA input.

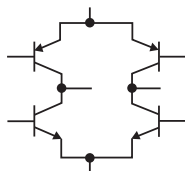


Avalanche Transistors



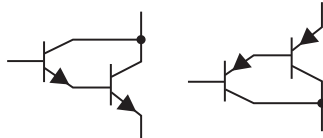
Part Number	Product Type	V _{CBO}	V _{CEO}	I _{CM}	P _D	I _{SA}	@ V _C	@ C _{CE}	h _{FE}	@ I _C	f _T Min.	Package
		V	V	A	W							
FMMT413	NPN	150	50	50	0.33	25	130	4700	50	10	150	SOT23
ZTX415	NPN	260	100	60	0.68	25	250	620	25	10	40	E-Line
FMMT415	NPN	260	100	60	0.33	25	250	620	25	10	40	SOT23
FMMT417	NPN	320	100	60	0.33	25	250	620	25	10	40	SOT23

H-bridge Transistors



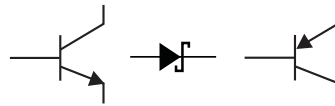
Part Number	Product Type	V_{CEO}	I_C	I_{CM}	P_D	h_{FE}		$V_{CE(sat)}$	f_T		Package	
		V	A	A	W	Min.	@ I_C	Max.	@ I_C	@ I_B		Min.
ZHB6718	2 x NPN + 2 x PNP	20 -20	2.5 -2.5	6 -6	2	200 150	2 -2	150 -200	1 -1	10 -20	140 180	SM8
ZHB6790	2 x NPN + 2 x PNP	40 -40	2 -2	6 -6	2	150 150	2 -2	500 -450	1 -1	5 -10	100 150	SM8
ZHB6792	2 x NPN + 2 x PNP	70 -70	1 -1	2 -2	2	150 200	1 -1	150 -500	1 -1	10 -20	150 100	SM8

Darlington Transistors



Part Number	Product Type	V_{CEO}	I_C	I_{CM}	P_D	h_{FE}		$V_{CE(sat)}$	f_T		Package	
		V	A	A	W	Min.	@ I_C	Min.	@ I_C	@ I_B		Min.
ZDT6702	NPN + PNP	60 -60	1.75 -1.75	4 -4	2.75	3500 1500	2 -2	950 -1000	0.5 -0.5	0.5 -0.5	140 140	SM8
BCX38C	NPN	60	0.8	2	1	10000	0.5	1250	0.8	8	-	E-Line
FMMT38C	NPN	60	0.3	0.8	0.33	10000	0.5	1250	0.8	8	-	SOT23
FZT603	NPN	80	2	6	2	3000	1	1000	1	1	150	SOT223
ZTX603	NPN	80	1	4	1	5000	0.5	1000	1	1	150	E-Line
FZT7053	NPN	100	1.5	1.8	1.25	10000	0.1	1500	0.1	0.1	200	SOT223
FMMT634	NPN	100	0.9	5	0.625	15000	1	960	1	5	140	SOT23
ZTX614	NPN	100	0.8	-	1	10000	0.5	1250	0.8	8	-	E-Line
FMMT614	NPN	100	0.5	2	0.5	5000	0.5	1000	0.5	5	-	SOT23
FTZ605	NPN	120	1.5	4	2	2000	1	1500	1	1	150	SOT233
FCX605	NPN	120	1	4	1	5000	0.5	1500	1	1	150	SO789
ZXTN04120HFF	NPN	120	1	4	1.5	3000	1	1500	1	1	120	SOT23F
ZTX605	NPN	120	1	4	1	2000	1	1500	1	1	150	E-Line
FZT600	NPN	140	2	4	2	2000	0.5	1200	1	10	150	SOT223
FZT600B	NPN	140	2	4	2	10000	0.5	1200	1	10	150	SOT223
ZTX601B	NPN	160	1	4	1	10000	0.5	1200	1	10	150	E-Line
FMMT734	PNP	-100	-0.8	-5	0.625	15000	-1	-1050	-1	-5	140	SOT23
FZT705	PNP	-120	-2	-4	2	3000	-1	-1300	-1	-1	160	SOT223
ZTX705	PNP	-120	-1	-4	1	3000	-1	-1300	-1	-1	160	E-Line
FCX705	PNP	-120	-1	-4	1	3000	-1	-1300	-1	-1	160	SOT89
ZXTP05120HFF	PNP	-120	-1	-4	1.5	3000	-1	-1100	-1	-1	150	SOT23F

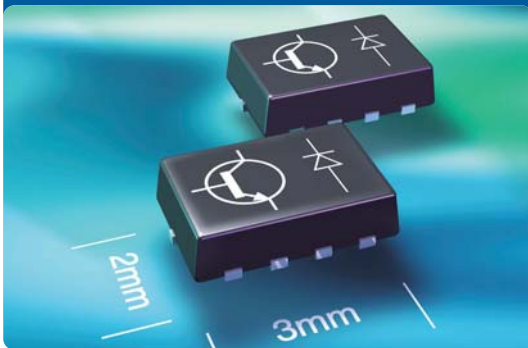
Transistor and Schottky Combinations



Part Number	Product Type	V_{CE0}	I_C	I_{CM}	P_D	h_{FE}	$V_{CE(sat)}$	V_F	$R_{CE(sat)}$	Package				
		V_F	I_F	I_{FSM}							Max.	Max.		
		V	A	A	W	A	mV	A	mA	mΩ				
ZXTPS717MC	PNP + Schottky	-12 40	-4 1.85	-12 12	1.5 1.2	300 -	-0.1 -	-140 -	-1 -	-10 -	- 0.5	- 1	65 -	DFN3020B-8
ZXTPS718MC	PNP + Schottky	-20 40	-3.5 1.85	-6 12	1.5 1.2	300 -	-0.1 -	-220 -	-1 -	-20 -	- 0.5	- 1	64 -	DFN3020B-8
ZXTPS720MC	PNP + Schottky	-40 40	-3 1.85	-4 12	1.5 1.2	300 -	-0.1 -	-220 -	-1 -	-50 -	- 0.5	- 1	104 -	DFN3020B-8
ZXTNS618MC	NPN + Schottky	20 40	4.5 1.85	12 12	1.5 1.2	300 -	-0.2 -	150 -	1 -	10 -	- 0.5	- 1	47 -	DFN3020B-8

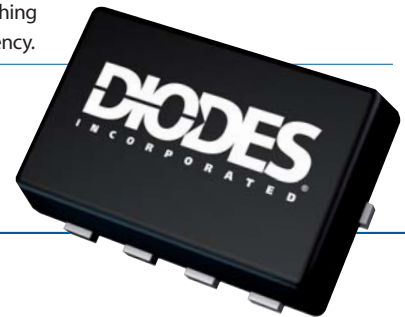
THE DIODES ADVANTAGE

Did you know? Our Transistor and Schottky Diodes combined in the DFN package offer a compact solution for DC-DC converter applications.

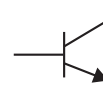


Product features

- Package footprint just 3 x 2mm.
- Offers excellent power density.
- NPN and PNP options with Schottky diode.
- Low saturation and fast switching transistor for improved efficiency.

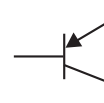


Industry Standard Transistors – NPN Transistors



V _{CEO}	I _C	Package											
		SOT223	SOT89	SOT23	SOT23-6	SOT323	SOT363	SOT523	SOT563	SOT963	DFN1006-3	DFN1006H4-3	DFN1310H4-6
20	1	DCP68	DCX68										
		DCP68-25	DCX68-25										
25	0.2			MMBT4124		MMST4124	MMDT4124*						
30	1	FZTA14 [#]											
	0.5			MMBT6427 [#]		MMST6427 [#]							
	0.3			MMBT13 [#]		MMST13 [#]							
				MMBT14 [#]		MMST14 [#]							
	0.1			BC848A		BC848AW							
			BC848B		BC848BW								
			BC848C		BC848CW								
40	0.6	DZT2222A	DXT2222A	MMBT2222A		MMST2222A	MMDT2222A*	MMBT2222AT	MMDT2222V*				
				MMBT4401		MMST4401	MMDT4401*	MMBT4401T					
	0.2		DXT3904	MMBT3904		MMST3904	MMDT3904*	MMBT3904T	MMDT3904VC*	DST3904DJ*	MMBT3904LP		
							DMMT3904W ^{#5}						
45	1	DCP54	DCX54										
		DCP54-16	DCX54-16										
	0.8			BC817-16									
				BC817-25									
				BC817-40									
				BCW66H									
	0.5					BC817-16W							
						BC817-25W							
					BC817-40W								
	0.2			BC747BLD									
0.1			BC847A		BC847AW	BC847BS*	BC847AT						
			BC847B		BC847BW		BC847BT	BC847BVC*	DST847BDJ*	BC847BLP	BC847BLP4		
			BC847C		BC847CW		BC847CT					BC847CDLP*	
50	0.1										DN0150ALP4		
											DN0150BLP4		
60	1	DCP55	DCX55										
		DCP55-16	DCX55-16										
	0.5		BCV49 [#]	BCV47 [#]									
				MMBTA05		MMSTA05							
65	0.1			BC846A		BC846AW	BC846AS*						
				BC846B		BC846BW							
80	1	DCP56	DCX56	MMBTA28 [#]									
		DCP56-16	DCX56-16										
			BSR43										
			BST52 [#]										
	0.5			MMBTA06		MMSTA06							
120	0.05				IMX8*								
125	0.8			BCX41									
160	0.6	DZT5551	DXT5551	MMBT5551									
	0.2					DMMT5551 ^{#5}	MMST5551	MMDT5551*					
300	0.5	DZTA42	DXTA42	MMBTA42		MMDTA42*							
	0.2							MMSTA42					
350	0.5			BST39		FMMT6517							

Industry Standard Transistors – PNP Transistors

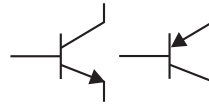


V _{CEO}	I _C	Package											
		SOT223	SOT89	SOT23	SOT23-6	SOT323	SOT363	SOT523	SOT563	SOT963	DFN1006-3	DFN1006H4-3	DFN1310H4-6
20	1	DCP69	DCX69										
		DCP69-16	DCX69-16										
		DCP69-25	DCX69-25										
25	0.2			MMBT4126		MMST4126	MMDT4126*						
30	0.1			BC858A		BC858AW							
				BC858B		BC858BW							
				BC858C		BC858CW							
	0.5			MMBTA63#		MMSTA63#							
				MMBTA64#		MMSTA64#							
40	0.6			MMBT4403		MMST4403	MMDT4403*	MMBT4403T					
	0.2		DXT3906	MMBT3906	DMMT3906*5	MMST3906	MMDT3906*	MMBT3906T	MMDT3906VC*	DST3906DJ*	MMBT3906LP		
45	1	DCP51	DCX51										
		DCP51-16	DCX51-16										
	0.8			BCW68H									
				BC807-16		BC807-16W							
	0.5			BC807-25		BC807-25W							
				BC807-40		BC807-40W							
	0.1			BC857A		BC857AW		BC857AT					
				BC857B		BC857BW	BC857BS*	BC857BT	BC857BV*	DST857BDJ*	BC857BLP	BC857BLP4	
			BC857C		BC857CW		BC857CT						
50	0.5				IMT17*								
	0.1										DP0150ALP4		
60	1	DCP52	DCX52										
		DCP52-16	DCX52-16										
	0.6	DZT2907A	DXT2907A	MMBT2907A		MMST2907A	MMDT2907A*	MMBT2907AT	MMDT2907V*				
	0.5			BCV46#									
			MMBTA55		MMSTA55								
65	0.1			BC856A		BC856AW	BC856AS*						
				BC856B		BC856BW							
80	1	DCP53	DCX53										
		DCP53-16	DCX53-16										
			BSR33										
150	0.5			MMBTA56		MMSTA56							
	0.6	DZT5401	DXT5401	MMBT5401									
300	0.2				DMMT5401*5	MMST5401	MMDT5401*						
	0.5	DZTA92	DXTA92	MMBTA92									
350	0.1					MMSTA92							
	0.5			FMMT6520									

* = Dual device
 # = Darlington transistor
 \$ = Matched transistors

Industry Standard Transistors

- NPN & PNP Transistor combinations



V _{CEO}	I _C	Package				
		SOT23-5	SOT363	SOT563	SOT963	DFN1310H4-6
25	0.2		MMDT4146			
40	0.6		MMDT4413			
	0.2	LBN150B01	MMDT3946		DST3946DPJ	MMDT3946LP4
	0.1		BC847PN	BC847BVN	DST847BPP6	
60	0.6	MMDT2227M	MMDT2227			
		DMB2227A				
65	0.6		HBDM60V600W			
150	0.2		MMDT5451			

THE DIODES ADVANTAGE

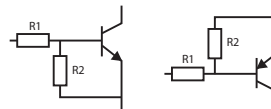
SOT963
Did you know? You can reduce your component count and save valuable PCB area by using dual small signal transistors in the SOT963 package.



Product features

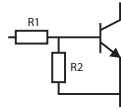
- Typical package footprint just 1mm x 1mm.
- Off the board height of 0.45mm.
- Dual NPN, dual PNP and NPN + PNP combinations.
- f_T maintained in smaller footprint.
- 6 initial parts offered.

NPN & PNP Pre-Bias Transistors



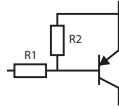
V _{CEO}	I _C	Product Type	Bias Resistors				Package				
			R1 (PNP) KΩ	R2 (PNP) KΩ	R1 (PNP) KΩ	R2 (PNP) KΩ	SOT563 P _D = 150mW	SOT363 P _D = 200mW	SC74R P _D = 300mW		
50	0.1	NPN = 0.1A / PNP = 0.5A	R1 = R2	0.1	10	10	-		MIMD10A	DIMD10A	
			R1 = R2	4.7	4.7	4.7	4.7	DCX143EH	DCX143EU		
		10		10	10	10	DCX114EH	DCX114EU	DCX114EK		
		22		22	22	22	DCX124EH	DCX124EU	DCX124EK		
		47		47	47	47	DCX144EH	DCX144EU	DCX144EK		
		R1 ≠ R2	0.2	10	0.2	10	DCX122LH	DCX122LU			
			0.47	10	0.47	10	DCX142JH	DCX142JU			
			2.2	47	2.2	47	DCX123JH	DCX123JU	DCX123JK		
		R1 only	10	47	10	47	DCX114YH	DCX114YU	DCX114YK		
			0.22	-	0.22	-	DCX122TH	DCX122TU			
			0.47	-	0.47	-	DCX142TH	DCX142TU			
			2.2	-	2.2	-	DCX143TH	DCX143TU	DCX143TK		
					10	-	10	-	DCX114TH	DCX114TU	DCX114TK
				R1(PNP) ≠ R2(PNP) = R1(NPN) = R2(NPN)	1	10	10	10	DCX100NS		
				R2(PNP) ≠ R1(PNP) = R1(NPN) = R2(NPN)	10	47	10	10	DCX4710H		

NPN Pre-Bias Transistors



V _{CEO}	I _C	Product Type	Bias Resistors		Package								
			R1 KΩ	R2 KΩ	DFN1006-3 P _D = 250mW	SOT523 P _D = 150mW	SOT323 P _D = 200mW	SOT23 P _D = 200mW	SC59 P _D = 200mW	SOT563 P _D = 150mW	SOT363 P _D = 200mW	SOT23-6 P _D = 300mW	
50	0.5	R1 = R2	1	1			DDTD113EU	DDTD113EC					
			2.2	2.2			DDTD123EU	DDTD123EC					
			4.7	4.7			DDTD143EU	DDTD143EC					
			10	10			DDTD114EU	DDTD114EC					
		R1 ≠ R2	0.22	4.7			DDTD122JU	DDTD122JC					
			0.22	10			DDTD122LU	DDTD122LC					
			0.47	10			DDTD142JU	DDTD142JC					
			1	10			DDTD113ZU	DDTD113ZC					
			2.2	10			DDTD123YU	DDTD123YC					
		R1 only	3.3	10			DDTD133HU	DDTD133HC					
			0.22	-			DDTD122TU	DDTD122TC					
			0.47	-			DDTD142TU	DDTD142TC					
			2.2	-			DDTD123TU	DDTD123TC					
		R1 only	4.7	-			DDTD143TU	DDTD143TC					
			10	-			DDTD114TU	DDTD114TC					
		R1 only	-	10			DDTD114GU	DDTD114GC					
		0.1	R1 = R2	2.2	2.2		DDTC123EE	DDTC123EUA	DDTC123ECA	DDTC123EKA			
				4.7	4.7		DDTC143EE	DDTC143EUA	DDTC143ECA	DDTC143EKA	DDC143EH	DDC143EU	
				10	10	DDTC114ELP	DDTC114EE	DDTC114EUA	DDTC114ECA	DDTC114EKA	DDC114EH	DDC114EU	
				22	22		DDTC124EE	DDTC124EUA	DDTC124ECA	DDTC124EKA	DDC124EH	DDC124EU	
	47			47		DDTC144EE	DDTC144EUA	DDTC144ECA	DDTC144EKA	DDC144EH	DDC144EU		
	100			100		DDTC115EE	DDTC115EUA	DDTC115ECA	DDTC115EKA				
	R1 ≠ R2			0.22	10		DDTC122LE	DDTC122LU			DDC122LH	DDC122LU	
				0.47	10		DDTC142JE	DDTC142JU			DDC142JH	DDC142JU	
				1	10		DDTC113ZE	DDTC113ZUA	DDTC113ZCA	DDTC113ZKA			
				2.2	10		DDTC123YE	DDTC123YUA	DDTC123YCA	DDTC123YKA			
			2.2	47	DDTC123JLP	DDTC123JE	DDTC123JUA	DDTC123JCA	DDTC123JKA	DDC123JH	DDC123JU		
			4.7	10		DDTC143XE	DDTC143XUA	DDTC143XCA	DDTC143XKA				
			4.7	22		DDTC143FE	DDTC143FUA	DDTC143FCA	DDTC143FKA				
			4.7	47	DDTC143ZLP	DDTC143ZE	DDTC143ZUA	DDTC143ZCA	DDTC143ZKA				
			10	4.7		DDTC114WE	DDTC114WUA	DDTC114WCA	DDTC114WKA				
			10	47	DDTC114YLP	DDTC114YE	DDTC114YUA	DDTC114YCA	DDTC114YKA	DDC114YH	DDC114YU		
	R1 only		22	47		DDTC124XE	DDTC124XUA	DDTC124XCA	DDTC124XKA				
			47	10		DDTC144VE	DDTC144VUA	DDTC144VCA	DDTC144VKA				
			47	22		DDTC144WE	DDTC144WUA	DDTC144WCA	DDTC144WKA				
			0.22	-		DDTC122TE	DDTC122TUA			DDC122TH	DDC122TU		
		0.47	-		DDTC142TE	DDTC142TUA			DDC142TH	DDC142TU			
		1	-	DDTC113TLP	DDTC113TE	DDTC113TUA	DDTC113TCA	DDTC113TKA					
		2.2	-		DDTC123TE	DDTC123TUA	DDTC123TCA	DDTC123TKA					
		4.7	-		DDTC143TE	DDTC143TUA	DDTC143TCA	DDTC143TKA	DDC143TH	DDC143TU			
10		-		DDTC114TE	DDTC114TUA	DDTC114TCA	DDTC114TKA	DDC114TH	DDC114TU				
22		-		DDTC124TE	DDTC124TUA	DDTC124TCA	DDTC124TKA						
47	-		DDTC144TE	DDTC144TUA	DDTC144TCA	DDTC144TKA		DDC144TU					
100	-		DDTC115TE	DDTC115TUA	DDTC115TCA	DDTC115TKA							
200	-			DDTC125TE	DDTC125TUA	DDTC125TCA	DDTC125TKA						
R2 only	-	10			DDTC114GE	DDTC114GUA	DDTC114GCA	DDTC114GKA					
	-	22			DDTC124GE	DDTC124GUA	DDTC124GCA	DDTC124GKA					
	-	47			DDTC144GE	DDTC144GUA	DDTC144GCA	DDTC144GKA					
	-	100			DDTC115GE	DDTC115GUA	DDTC115GCA	DDTC115GKA					

PNP Pre-Bias Transistors



V _{CEO} V	I _C A	Product Type	Bias Resistors		Package								
			R1 KΩ	R2 KΩ	DFN1006-3 P _D = 250mW	SOT523 P _D = 150mW	SOT323 P _D = 200mW	SOT23 P _D = 200mW	SC59 P _D = 200mW	SOT563 P _D = 150mW	SOT363 P _D = 200mW	SOT23-6 P _D = 300mW	
50	0.5	R1 = R2	1	1			DDTB113EU	DDTB113EC					
			2.2	2.2			DDTB123EU	DDTB123EC					
			4.7	4.7			DDTB143EU	DDTB143EC					
			10	10			DDTB114EU	DDTB114EC					
		R1 ≠ R2	0.22	4.7			DDTB122JU	DDTB122JC					
			0.22	10			DDTB122LU	DDTB122LC					
			0.47	10			DDTB142JU	DDTB142JC					
			1	10			DDTB113ZU	DDTB113ZC					
			2.2	10			DDTB123YU	DDTB123YC					
		R1 only	3.3	10			DDTB133HU	DDTB133HC					
			0.22	-			DDTB122TU	DDTB122TC					
			0.47	-			DDTB142TU	DDTB142TC					
			2.2	-			DDTB123TU	DDTB123TC					
		R1 only	4.7	-			DDTB143TU	DDTB143TC					
			10	-			DDTB114TU	DDTB114TC					
			-	10			DDTB114GU	DDTB114GC					
			-	10									
		0.1	R1 = R2	2.2	2.2		DDTA123EE	DDTA123EUA	DDTA123ECA	DDTA123EKA			
				4.7	4.7		DDTA143EE	DDTA143EUA	DDTA143ECA	DDTA143EKA	DDA143EH	DDA143EU	
				10	10		DDTA114EE	DDTA114EUA	DDTA114ECA	DDTA114EKA	DDA114EH	DDA114EU	DDA114EK
	22			22		DDTA124EE	DDTA124EUA	DDTA124ECA	DDTA124EKA	DDA124EH	DDA124EU	DDA124EK	
	47			47	DDTA144ELP	DDTA144EE	DDTA144EUA	DDTA144ECA	DDTA144EKA	DDA144EH	DDA144EU	DDA144EK	
	100			100		DDTA115EE	DDTA115EUA	DDTA115ECA	DDTA115EKA				
	R1 ≠ R2		0.22	10		DDTA122LE	DDTA122LU			DDA122LH	DDA122LU		
			0.47	10		DDTA142JE	DDTA142JU			DDA142JH	DDA142JU		
			1	10		DDTA113ZE	DDTA113ZUA	DDTA113ZCA	DDTA113ZKA				
			2.2	10		DDTA123YE	DDTA123YUA	DDTA123YCA	DDTA123YKA				
			2.2	47		DDTA123JE	DDTA123JUA	DDTA123JCA	DDTA123JKA	DDA123JH	DDA123JK	DDA123JU	
			4.7	10		DDTA143XE	DDTA143XUA	DDTA143XCA	DDTA143XKA				
			4.7	22		DDTA143FE	DDTA143FUA	DDTA143FCA	DDTA143FKA				
			4.7	47		DDTA143ZE	DDTA143ZUA	DDTA143ZCA	DDTA143ZKA				
			10	4.7		DDTA114WE	DDTA114WUA	DDTA114WCA	DDTA114WKA				
			10	47	DDTA114YLP	DDTA114YE	DDTA114YUA	DDTA114YCA	DDTA114YKA	DDA114YH	DDA114YU	DDA114YK	
	R1 only		22	47		DDTA124XE	DDTA124XUA	DDTA124XCA	DDTA124XKA				
			47	10		DDTA144VE	DDTA144VUA	DDTA144VCA	DDTA144VKA				
			47	22		DDTA144WE	DDTA144WUA	DDTA144WCA	DDTA144WKA				
			0.22	-		DDTA122TE	DDTA122TUA			DDA122TH	DDA122TU		
		0.47	-		DDTA142TE	DDTA142TUA			DDA142TH	DDA142TU			
		1	-		DDTA113TE	DDTA113TUA	DDTA113TCA	DDTA113TKA					
		2.2	-		DDTA123TE	DDTA123TUA	DDTA123TCA	DDTA123TKA					
4.7		-		DDTA143TE	DDTA143TUA	DDTA143TCA	DDTA143TKA	DDA143TH	DDA143TU	DDA143TK			
R2 only	10	-		DDTA114TE	DDTA114TUA	DDTA114TCA	DDTA114TKA	DDA114TH	DDA114TU	DDA114TK			
	22	-		DDTA124TE	DDTA124TUA	DDTA124TCA	DDTA124TKA						
	47	-		DDTA144TE	DDTA144TUA	DDTA144TCA	DDTA144TKA		DDA144TU				
	100	-		DDTA115TE	DDTA115TUA	DDTA115TCA	DDTA115TKA						
R2 only	200	-		DDTA125TE	DDTA125TUA	DDTA125TCA	DDTA125TKA						
	-	10		DDTA114GE	DDTA114GUA	DDTA114GCA	DDTA114GKA						
	-	22		DDTA124GE	DDTA124GUA	DDTA124GCA	DDTA124GKA						
	-	47		DDTA144GE	DDTA144GUA	DDTA144GCA	DDTA144GKA						
-	100		DDTA115GE	DDTA115GUA	DDTA115GCA	DDTA115GKA							

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