

# Bipolar Transistors



A Product Line of  
Diodes Incorporated



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## ZETEX SINGLE NPN LOW SATURATION TRANSISTORS

◆ Surface Mount

MOUSER STOCK NO.	Zetex Part No.	Package	V <sub>CEO</sub> (V)	I <sub>C</sub> (A)	P <sub>D</sub> (W)	h <sub>FE</sub>			V <sub>CE</sub> (sat)			f <sub>T</sub> (MHz)	Price Each			
						Min.	Max.	@ I <sub>C</sub> (A)	Max. (mV)	@ I <sub>C</sub> (mA)	@ I <sub>B</sub> (mA)		1	25	100	250
						522-ZTX688B	ZTX688B	E-Line	12	3	1		500	-----	0.1	40
◆ 522-FCX688BTA	FCX688BTA	SOT-89	12	3	3	1	500	0.1	40	0.1	1	150	.74	.55	.351	.273
◆ 522-ZUMT617TA	ZUMT617TA	SOT-223	15	1.5	0.385	300	-----	0.1	20	0.1	10	180	.52	.38	.25	.214
◆ 522-ZXT11N15DFTA	ZXT11N15DFTA	SOT-23	15	3	0.625	300	900	0.2	0.08	1	10	145	.82	.60	.386	.30
◆ 522-FMMT617TA	FMMT617TA	SOT-23	15	3	0.625	300	-----	0.2	14	0.1	10	120	.73	.54	.342	.266
◆ 522-ZXT13N15DE6TA	ZXT13N15DE6TA	SOT-23-6	15	5	1.1	300	900	1	70	1	10	72	1.03	.77	.486	.378
◆ 522-ZXTN25015DFHTA	ZXTN25015DFHTA	SOT-23	15	5	1.25	300	900	0.01	40	1	100	240	.86	.64	.42	.353
◆ 522-ZXTN23015CFHTA	ZXTN23015CFHTA	SOT-23	15	6	1.25	200	560	0.5	30	1	100	235	1.20	.89	.59	.492
◆ 522-ZTX1048A	ZTX1048A	E-Line	17.5	4	1	300	1200	1	45	0.5	10	150	1.61	1.19	.756	.588
◆ 522-FZT1048ATA	FZT1048ATA	SOT-223	17.5	5	2.5	300	1200	1	45	0.5	10	150	1.24	.92	.58	.451
◆ 522-ZXT11N20DFTA	ZXT11N20DFTA	SOT-23	20	2.5	0.625	300	900	0.1	0.1	1	10	160	.93	.69	.437	.34
◆ 522-FMMT618TA	FMMT618TA	SOT-23	20	2.5	0.625	300	-----	0.2	15	0.1	10	140	.73	.54	.342	.266
◆ 522-ZTX689B	ZTX689B	E-Line	20	3	1	500	-----	0.1	100	0.1	0.5	150	1.56	1.15	.76	.631
◆ 522-FZT689BTA	FZT689BTA	SOT-223	20	3	2	500	-----	0.1	100	0.1	0.5	150	1.27	.94	.594	.462
◆ 522-ZTX618	ZTX618	E-Line	20	3.5	1	300	-----	0.2	15	0.1	10	140	1.24	.90	.556	.494
◆ 522-ZXT13N20DE6TA	ZXT13N20DE6TA	SOT-23-6	20	4.5	1.1	300	900	1	75	1	10	96	1.03	.77	.486	.378
◆ 522-ZTX649	ZTX649	E-Line	25	2	1	100	300	1	300	1	100	240	1.32	.98	.64	.545
◆ 522-FZT649TA	FZT649TA	SOT-223	25	3	2	100	300	1	300	1	100	240	1.03	.77	.486	.378
◆ 522-ZXTN2005GTA	ZXTN2005GTA	SOT-223	25	7	3	300	-----	1	40	0.5	10	150	1.44	1.07	.675	.525
◆ 522-FMMT449TA	FMMT449TA	SOT-23	30	1	0.5	100	300	0.5	500	1	100	150	.43	.32	.21	.181
◆ 522-FMMT489TA	FMMT489TA	SOT-23	30	1	0.5	100	300	1	300	1	100	150	.43	.32	.21	.181
◆ 522-ZTX449	ZTX449	E-Line	30	1	1	100	300	0.5	500	1	100	150	.76	.56	.39	.31
◆ 522-ZTX1049A	ZTX1049A	E-Line	30	4	1	300	1200	1	60	0.5	10	100	1.61	1.19	.756	.588
◆ 522-FZT1049ATA	FZT1049ATA	SOT-223	30	5	2.5	300	1200	1	60	0.5	10	180	1.24	.92	.58	.451
◆ 522-ZXTN2007ZTA	ZXTN2007ZTA	SOT-89	30	6	2.1	100	300	1	45	1	100	140	1.32	.98	.621	.483
◆ 522-ZX5T849GTA	ZX5T849GTA	SOT-223	30	7	3	100	300	1	110	1	20	140	1.49	1.11	.73	.609
◆ 522-ZTX849	ZTX849	E-Line	30	7	3	100	300	1	110	1	20	100	1.78	1.32	.837	.651
◆ 522-FZT849TA	FZT849TA	SOT-223	30	7	3	100	300	1	215	2	20	100	1.61	1.19	.756	.588
◆ 522-ZXTN2007GTA	ZXTN2007GTA	SOT-223	30	7	3	100	300	1	80	1	20	100	1.44	1.07	.675	.525
◆ 522-ZXT849KTC	ZXT849KTC	DPAK	30	7	4.2	100	300	1	80	1	20	100	2.28	1.69	1.11	.93
◆ 522-FZT491ATA	FZT491ATA	SOT-223	40	1	2	300	900	0.5	300	0.5	50	150	.98	.72	.459	.357
◆ 522-FCX1051ATA	FCX1051ATA	SOT-89	40	3	1	300	1200	1	120	1	10	155	1.10	.81	.513	.399
◆ 522-ZTX1051A	ZTX1051A	E-Line	40	4	1	300	1200	1	110	1	10	155	1.61	1.19	.756	.588
◆ 522-FZT1051ATA	FZT1051ATA	SOT-223	40	5	2.5	270	1200	1	120	1	10	155	1.24	.92	.58	.451
◆ 522-BCW66HTA	BCW66HTATA	SOT-23	45	0.8	0.33	250	630	0.1	300	0.1	10	100	.40	.29	.20	.16
◆ 522-ZTX450	ZTX450	E-Line	45	1	1	100	300	0.15	250	0.15	15	150	.81	.59	.39	.331
◆ 522-ZTX690B	ZTX690B	E-Line	45	2	1	400	-----	1	100	0.1	0.5	150	1.56	1.15	.76	.631
◆ 522-FCX690BTA	FCX690BTA	SOT-89	45	2	1	400	-----	1	80	0.1	0.5	150	.74	.55	.351	.273
◆ 522-FZT690BTA	FZT690BTA	SOT-223	45	3	2	400	-----	1	100	0.1	0.5	150	1.27	.94	.594	.462
◆ 522-ZXT690BKTC	ZXT690BKTC	DPAK	45	3	3.9	400	-----	1	80	1	20	150	1.76	1.30	.86	.716
◆ 522-ZUMT619TA	ZUMT619TA	SOT-323	50	1	0.385	300	-----	0.1	35	0.1	10	215	.52	.38	.25	.214
◆ 522-FMMT619TA	FMMT619TA	SOT-23	50	2	0.625	300	-----	0.2	20	0.1	10	170	.73	.54	.342	.266
◆ 522-ZXT10N50DE6TA	ZXT10N50DE6TA	SOT-23-6	50	3	1.1	200	-----	1	200	1	10	165	.86	.64	.42	.353
◆ 522-ZXT13N50DE6TA	ZXT13N50DE6TA	SOT-23-6	50	4	1.1	300	900	1	100	1	10	115	1.03	.77	.486	.378
◆ 522-ZXTN2031FTA	ZXTN2031FTA	SOT-23	50	5	1.2	200	560	0.5	40	1	100	125	1.20	.89	.59	.492
◆ 522-FZT851TA	FZT851TA	SOT-223	60	6	3	100	300	2	100	1	50	130	1.61	1.19	.756	.588
◆ 522-FZT692BTA	FZT692BTA	SOT-223	70	2	2	400	-----	0.5	500	1	10	150	1.27	.94	.594	.462
◆ 522-FZT1053ATA	FZT1053ATA	SOT-223	75	4.5	2.5	300	1200	0.5	200	1	10	140	1.24	.92	.58	.451
◆ 522-ZXT1053AKTC	ZXT1053AKTC	DPAK	75	5	4	300	1200	1	160	1	10	160	2.69	1.99	1.30	1.10
◆ 522-FMMT620TA	FMMT620TA	SOT-23	80	1.5	0.625	300	-----	0.2	23	0.1	10	150	.73	.54	.36	.299

## ZETEX DUAL NPN LOW SATURATION TRANSISTORS



◆ Surface Mount

MOUSER STOCK NO.	Zetex Part No.	Package	V <sub>CEO</sub> (V)	I <sub>C</sub> (A)	P <sub>D</sub> (W)	h <sub>FE</sub>			V <sub>CE</sub> (sat)			f <sub>T</sub> (MHz)	Price Each			
						Min.	Max.	@ I <sub>C</sub> (A)	Max. (mV)	@ I <sub>C</sub> (mA)	@ I <sub>B</sub> (mA)		1	25	100	250
						◆ 522-ZDT1048TA	ZDT1048TA	SM-8	17.5	5	2.75		250	-----	5	0.24
◆ 522-ZXTD09N50DE6TA	ZXTD09N50DE6TA	SOT-23-6	50	1	1.1	300	-----	0.1	0.27	1	50	-----	1.72	1.28	.84	.706
◆ 522-ZXT12N50DXTA	ZXT12N50DXTA	MSOP-8	50	3	1.25	300	900	1	0.12	1	10	-----	2.60	1.92	1.21	.945
◆ 522-ZDT1053TA	ZDT1053TA	SM-8	75	5	2.75	300	-----	1	0.44	5	250	-----	2.70	2.00	1.26	.982

## ZETEX SINGLE PNP LOW SATURATION TRANSISTORS

◆ Surface Mount

MOUSER STOCK NO.	Zetex Part No.	Package	V <sub>CEO</sub> (V)	I <sub>C</sub> (A)	P <sub>D</sub> (W)	h <sub>FE</sub>			V <sub>CE</sub> (sat)			f <sub>T</sub> (MHz)	Price Each			
						Min.	Max.	@ I <sub>C</sub> (A)	Max. (mV)	@ I <sub>C</sub> (mA)	@ I <sub>B</sub> (mA)		1	25	100	250
						◆ 522-FMMTL717TA	FMMTL717TA	SOT-23	-12	-1.25	0.5		300	-----	-0.1	-40
◆ 522-FMMT717TA	FMMT717TA	SOT-23	-12	-2.5	0.625	300	-----	-0.1	-17	-0.1	-10	110	.57	.42	.27	.21
◆ 522-ZXT10P12DE6TA	ZXT10P12DE6TA	SOT-23-6	-12	-3	1.1	300	-----	-0.1	-17	-0.1	-10	110	.86	.64	.42	.353
◆ 522-ZXT13P12DE6TA	ZXT13P12DE6TA	SOT-23-6	-12	-4	1.1	300	900	-1	-90	-1	-10	55	1.03	.77	.486	.378
◆ 522-FZT968TA	FZT968TA	SOT-223	-12	-6	3	300	1000	-0.5	-130	-0.5	-5	80	1.73	1.28	.81	.63
◆ 522-ZTX788B	ZTX788B	E-Line	-15	-3	1	400	-----	-1	-150	-0.5	-2.5	100	1.51	1.12	.78	.62
◆ 522-ZTX788A	ZTX788A	E-Line	-15	-3	1	300	800	-0.01	-35	-0.1	-2	150	1.61	1.19	.78	.663
◆ 522-FZT788BTA	FZT788BTA	SOT-223	-15	-3	2	400	-----	-1	-150	-0.5	-2.5	100	1.41	1.04	.661	.514
◆ 522-FMMT718TA	FMMT718TA	SOT-23	-20	-1.5	0.625	300	-----	-0.1	-40	-0.1	-10	180	.57	.42	.27	.21

