

Diodes



A Product Line of
Diodes Incorporated



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ZETEX SCHOTTKY BARRIER DIODES

Zetex schottky barrier diodes offer the combined benefits of an excellent high performance specification in miniature surface mount packages. An optimized geometry / process with superior packaging gives an unmatched IF/VF performance and PD capability, enabling significant space savings, circuit efficiencies and cost effective solutions to larger package options

Features:

- Low forward voltage
- High current capability
- Fast recovery time
- Miniature package size

Applications:

- DC-DC conversion
- Distributed and auxiliary supplies
- High frequency rectification
- Mobile telecommunications, PCMCIA (flashcards) and SCSI LAN PSUs
- Charger circuits

◆ Surface Mount

For quantities of 500 and up, call for quote.

MOUSER STOCK NO.	Zetex Part No.	Package	Device Type	V _R Max. (V)	I _F Max. (A)	V _F @I _F		I _R @ V _R		I _{FSM} Max. (A)	Price Each			
						Max. (mV)	(mA)	Max. (μA)	V _R		1	25	100	250
◆522-BAT54TA	BAT54TA	SOT-23	Single	30	200	500	30	4	25	0.6	.15	.13	.11	.10
◆522-BAT54ATA	BAT54ATA	SOT-23	Common Anode	30	200	500	30	4	25	0.6	.24	.20	.18	.16
◆522-BAT54CTA	BAT54CTA	SOT-23	Common Cathode	30	200	500	30	4	25	0.6	.24	.20	.18	.16
◆522-BAT54STA	BAT54STA	SOT-23	Series	30	200	500	30	4	25	0.6	.06	.055	.049	.044
◆522-ZHCS400TA	ZHCS400TA	SOD-323	-----	40	0.4	500	400	40	30	6.75	.28	.24	.214	.192
◆522-ZHCS500TA	ZHCS500TA	SOT-23	-----	40	0.5	550	500	40	30	6.75	.34	.27	.256	.224
◆522-ZHCS750TA	ZHCS750TA	SOT-23	-----	40	0.75	490	750	100	30	12	.44	.37	.342	.28
◆522-ZHCS1000TA	ZHCS1000TA	SOT-23	-----	40	1	425	1000	100	30	12	.40	.33	.299	.25
◆522-ZHCS2000TA	ZHCS2000TA	SOT-23-6	-----	40	2	500	2000	300	30	20	.56	.47	.417	.374
◆522-ZHCS506TA	ZHCS506TA	SOT-23	-----	60	0.5	630	500	40	45	5.5	.37	.31	.278	.246
◆522-ZHCS1006TA	ZHCS1006TA	SOT-23	-----	60	0.9	600	1000	100	45	12	.40	.33	.299	.267

ZETEX LOW LEAKAGE SCHOTTKY RECTIFIER DIODES

Zetex has strengthened its current Schottky range with the introduction of 4 new surface mount, high current, very low leakage, fast switching Schottky diodes which complement the existing low VF, ZHCS series (ideal for lower temperature operation). These new low leakage diodes are ideally suited to address applications requiring efficient operation at higher temperatures, often a significant limitation of conventional Schottky types. The ZLLS series diodes are provided in choice of packages which relate directly to die size and IF performance ensuring that designers have the optimum choice of package size / performance / cost.

Features:

- V_R -40V
- Very low VF at high temperature operation (above 85°C)
- Very low leakage capability in all packages

- High temperature operation of ZLLS diodes complement the existing range of ZHCS series (optimized for operation at lower temperatures)

Applications:

- Automotive power conversion
- DC conversion (telecom DC modules)
- Charging circuits

- High frequency rectification
- Motor control
- Battery powered equipment

◆ Surface Mount

For quantities of 500 and up, call for quote.

MOUSER STOCK NO.	Zetex Part No.	Package	V _R Max (V)	I _F Max. (A)	V _F @I _F		I _R @ 30V Max. (μA)	T _{rr} (ns)	CD @ 30V (pF)	PD W	Price Each			
					Max. (mV)	(mA)					1	25	100	250
◆522-ZLLS350TA	ZLLS350TA	SOD-523	40	0.38	1000	275	4	1	3.5	0.36	.31	.25	.224	.203
◆522-ZLLS500TA	ZLLS500TA	SOT-23	40	0.52	530	500	10	2.46	15.5	0.33	.63	.47	.297	.231
◆522-ZLLS400TA	ZLLS400TA	SOD-323	40	0.7	500	400	10	2.46	15.5	0.5	.54	.40	.256	.199
◆522-ZLLS1000TA	ZLLS1000TA	SOT-23	40	1.16	560	1000	40	3.71	65	1.1	.41	.35	.31	.278
◆522-ZLLS2000TA	ZLLS2000TA	SOT-23-6	40	2.2	540	2000	20	2.58	31	0.625	1.03	.77	.486	.378

ZETEX 12 AND 25 VOLTAGE HYPERABRUPT VARACTOR DIODES

Features:

- Close tolerance C-V characteristics
- High tuning ratio
- Low IR (typically 200pA)

- Excellent phase noise performance
- High Q
- Range of miniature surface mount packages

Applications:

- VCXO and TCXO
- Wireless communications

- Pagers
- Mobile radio

◆ Surface Mount

12 Voltage

For quantities of 500 and up, call for quote.

MOUSER STOCK NO.	Zetex Part No.	Package	Voltage	Capacitance V _R =1V, f=1MHz		Capacitance V _R =2.5V, f=1MHz		Capacitance V _R =4V, f=1MHz		Q V _R =4V, f=50MHz	Price Each			
				Min. (pF)	Max. (pF)	Min. (pF)	Max. (pF)	Max. (pF)	Min. (pF)	1	25	100	250	
◆522-ZC930TA	ZC930TA	SOT-23	12	8.7	4.3	5.5		2.9	200	2.54	2.00	1.77	1.44	
◆522-ZC932TA	ZC932TA	SOT-23	12	17	8.5	10.5		5.5	200	2.54	2.00	1.77	1.44	
◆522-ZC933TA	ZC933TA	SOT-23	12	42	18	27		12	150	2.54	2.00	1.77	1.44	
◆522-ZMV933TA	ZMV933TA	SOD-323	12	42	18	27		12	150	1.79	1.41	1.25	1.02	
◆522-ZC933ATA	ZC933ATA	SOT-23	12	42	20.25	24.75		12	150	2.54	2.00	1.77	1.44	
◆522-ZC934TA	ZC934TA	SOT-23	12	95	40	65		25	80	2.54	2.00	1.77	1.44	
◆522-ZC934ATA	ZC934ATA	SOT-23	12	95	47.25	57.75		25	80	2.54	2.00	1.77	1.44	
◆522-ZMV934ATA	ZMV934ATA	SOD-323	12	95	47.25	57.75		25	80	1.79	1.41	1.25	1.02	

25 Voltage

For quantities of 500 and up, call for quote.

MOUSER STOCK NO.	Zetex Part No.	Package	Voltage	Capacitance V _R =2V, f=1MHz		Capacitance Ratio C ₂ /C ₂₀ at f=MHz		Q V _R =3V, f=50MHz	Price Each			
				Typ. (pF)	Min. (pF)	Max. (pF)	Min. (pF)	1	25	100	250	
◆522-ZC831BTA	ZC831BTA	SOT-23	25	15		4.5		300	1.74	1.38	1.21	1.05
◆522-ZC832BTA	ZC832BTA	SOT-23	25	22		5		200	1.93	1.51	1.34	1.17
◆522-ZC836BTA	ZC836BTA	SOT-23	25	100		5		100	1.81	1.42	1.26	1.10

