

DIODES INC. Rectifiers and Diodes



Products may be RoHS compliant. Check mouser.com for RoHS status.

FAST/SUPER-FAST/ULTRA-FAST RECOVERY RECTIFIERS

RoHS Compliant

MOUSER STOCK NO.	Diodes Inc. Part No.	Package	Rectifying Current (A)	Reverse Recovery Time (ns)	V _{RRM} (Max.) (V)	Max. Surge Current (A)	Price Each		
							1	10	100
621-ES1A-F	ES1A-13-F	SMA	1	25	50	30	.46	.327	.15
621-ES1B-F	ES1B-13-F	SMA	1	25	100	30	.46	.327	.15
621-ES1C-F	ES1C-13-F	SMA	1	25	150	30	.63	.523	.319
621-ES1D-F	ES1D-13-F	SMB	1	25	200	30	.46	.327	.15
621-MUR120	MUR120-T	DO-41	1	25	200	35	.47	.397	.242
621-MURS120	MURS120-13-F	SMB	1	25	200	40	.46	.327	.15
621-UF1001	UF1001-T	DO-41	1	50	50	30	.45	.296	.127
621-US1A-F	US1A-13-F	SMA	1	50	50	30	.42	.297	.137
621-US1B-F	US1B-13-F	SMA	1	50	100	30	.40	.283	.13
621-UF1004	UF1004-T	DO-41	1	50	400	30	.47	.334	.153
621-US1G-F	US1G-13-F	SMA	1	50	400	30	.46	.327	.15
621-MURS160-F	MURS160-13-F	SMB	1	50	600	35	.39	.302	.164
621-US1J-F	US1J-13-F	SMA	1	75	600	30	.46	.327	.15
621-US1K-F	US1K-13-F	SMA	1	75	800	30	.42	.326	.176
621-UF1007	UF1007-T	DO-41	1	75	1000	30	.41	.343	.209
621-US1M-F	US1M-13-F	SMA	1	75	1000	30	.42	.326	.176
621-RS1A-13-F	RS1A-13-F	SMA	1	150	50	30	.44	.288	.124
621-RS1AB-13-F	RS1AB-13-F	SMB	1	150	50	30	.38	.272	.125
621-RS1D-13-F	RS1D-13-F	SMA	1	150	200	30	.39	.325	.198
621-RS1G-13-F	RS1G-13-F	SMA	1	150	400	30	.44	.288	.124
621-RS1M-13-F	RS1M-13-F	SMA	1	500	1000	30	.34	.266	.144
621-RS2D-13-F	RS2D-13-F	SMB	1.5	150	200	50	.34	.266	.144
621-ES2A-F	ES2A-13-F	SMB	2	25	50	50	.59	.496	.32
621-ES2AA-F	ES2AA-13-F	SMA	2	25	50	50	.48	.372	.202
621-ES2B-F	ES2B-13-F	SMB	2	25	100	50	.48	.372	.202
621-ES2CA-F	ES2CA-13-F	SMA	2	25	150	50	.67	.558	.36
621-ES2DA-13-F	ES2DA-13-F	SMA	2	25	200	50	.48	.372	.202
621-US2JDF-13	US2JDF-13	D-FLAT-2	2	75	600	50	.42	.323	.175
621-RS2AA-13-F	RS2AA-13-F	SMA	2	150	50	50	.43	.361	.22
621-ES3AB-F	ES3AB-13-F	SMB	3	25	50	100	.64	.531	.323
621-ES3B-F	ES3B-13-F	SMC	3	25	100	100	.83	.714	.548
621-ES3BB-F	ES3BB-13-F	SMB	3	25	100	100	.64	.531	.323
621-ES3C-F	ES3C-13-F	SMC	3	25	150	100	.88	.756	.581
621-ES3CB-F	ES3CB-13-F	SMB	3	25	150	100	.64	.531	.323
621-ES3D-F	ES3D-13-F	SMC	3	25	200	100	.64	.531	.323
621-ES3DB-F	ES3DB-13-F	SMB	3	25	200	100	.64	.531	.323
621-RS3K-13-F	RS3K-13-F	SMC	3	500	800	100	.60	.505	.308
621-PDU620-13	PDU620-13	PowerDI™5	6	25	200	150	1.31	1.12	.86

SCHOTTKY BARRIER DIODES

◆ Surface Mount Device

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 I_F/V_F 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



RoHS Compliant

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Diodes Inc. Part No.	Description	Device Type	V _R (Max.) (V)	I _F (Max.) (A)	V _F @I _F		I _R @		I _{FSM} (Max.) (A)	Price Each		
						Max. (mV)	(mA)	Max. (μA)	V _R		1	10	100
◆ 522-BAT54TA	BAT54TA	SOT-23	Single	30	200	500	30	4	25	0.6	.29	.198	.082
◆ 522-BAT54ATA	BAT54ATA	SOT-23	Common Anode	30	200	500	30	4	25	0.6	.29	.198	.082
◆ 522-BAT54CTA	BAT54CTA	SOT-23	Common Cathode	30	200	500	30	4	25	0.6	.29	.198	.082
◆ 522-BAT54STA	BAT54STA	SOT-23	Series	30	200	500	30	4	25	0.6	.29	.198	.082
◆ 522-ZHCS400TA	ZHCS400TA	SOD-323	-	40	0.4	500	400	40	30	6.75	.39	.325	.198
◆ 522-ZHCS500TA	ZHCS500TA	SOT-23	-	40	0.5	550	500	40	30	6.75	.45	.379	.231
◆ 522-ZHCS750TA	ZHCS750TA	SOT-23	-	40	0.75	490	750	100	30	12	.60	.505	.308
◆ 522-ZHCS1000TA	ZHCS1000TA	SOT-23	-	40	1	425	1000	100	30	12	.54	.451	.275
◆ 522-ZHCS2000TA	ZHCS2000TA	SOT-23-6	-	40	2	500	2000	300	30	20	.65	.542	.35
◆ 522-ZHCS506TA	ZHCS506TA	SOT-23	-	60	0.5	630	500	40	45	5.5	.50	.415	.253

LOW LEAKAGE SCHOTTKY RECTIFIER DIODES

◆ Surface Mount Device

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 V_F, 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 I_F performance ensuring that designers have the optimum choice of package size / performance / cost.

Features:

- VR -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

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MOUSER STOCK NO.	Diodes Inc. 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	10	100
◆ 522-ZLLS350TA	ZLLS350TA	SOD-523	40	0.38	1000	275	4	1	3.5	0.36	.41	.343	.209
◆ 522-ZLLS500TA	ZLLS500TA	SOT-23	40	0.52	530	500	10	2.46	15.5	0.33	.47	.397	.242
◆ 522-ZLLS400TA	ZLLS400TA	SOD-323	40	0.7	500	400	10	2.46	15.5	0.5	.41	.343	.209
◆ 522-ZLLS1000TA	ZLLS1000TA	SOT-23	40	1.16	560	1000	40	3.71	65	1.1	.56	.469	.286
◆ 522-ZLLS2000TA	ZLLS2000TA	SOT-23-6	40	2.2	540	2000	20	2.58	31	0.625	.76	.639	.412

QUAD SURFACE MOUNT TVS ARRAYS

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Diodes Inc. Part No.	Package	Power Rating (W)	Reverse Standoff Voltage V _{RWM} (V)	Max. Breakdown Voltage V _{BR} (V)	Max. Reverse Leakage Current I _R @ V _{RWM} (Max.) (μA)	Typ. Capacitance		Price Each		
							@ 0V Bias (pF)	@ 3V Bias (pF)	1	10	100
621-DMF05LCFLP-7	DMF05LCFLP-7	DFN1616-16	70	5	8	0.1	50	-	.40	.31	.168
621-DZQA6V8AXV5-7	DZQA6V8AXV5-7	SOT-553	20	4.3	7.14	.300	12.5	7.6	.34	.224	.096
621-DUP412VP5-7	DUP412VP5-7	SOT-953	18	9	12.7	0.5	6.5	3.5	.49	.376	.204