

# 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 <sub>RRM</sub> (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<sub>F</sub>/V<sub>F</sub> 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 <sub>R</sub> (Max.) (V)	I <sub>F</sub> (Max.) (A)	V <sub>F</sub> @I <sub>F</sub>		I <sub>R</sub> @		I <sub>FSM</sub> (Max.) (A)	Price Each		
						Max. (mV)	(mA)	Max. (μA)	V <sub>R</sub>		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<sub>F</sub>, 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<sub>F</sub> 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

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Diodes Inc. Part No.	Package	V <sub>R</sub> (Max.) (V)	I <sub>F</sub> (Max.) (A)	V <sub>F</sub> @I <sub>F</sub>		I <sub>R</sub> @ 30V (Max.) (μA)	T <sub>rr</sub> (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 <sub>RWM</sub> (V)	Max. Breakdown Voltage V <sub>BR</sub> (V)	Max. Reverse Leakage Current I <sub>R</sub> @ V <sub>RWM</sub> (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