

3 Amp Diffused Silicon Epoxy Rectifiers with 100 Amp Peak Surge Rating

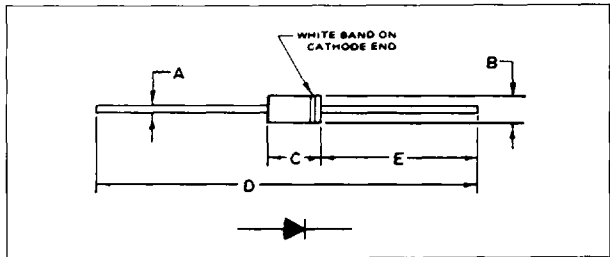
Controlled Avalanche Types with 250V, 450V, 650V, and 850V Minimum Avalanche Ratings

Non-Controlled Avalanche Types with 50V, 100V, 200V, 400V, 600V, 800V, and 1000V V_{RRM} Ratings

Fast Recovery Types with 200 Nanosecond Maximum t_r
Minimum Sized, Low Cost Epoxy Encapsulation

LTR	INCHES	MILLIMETERS
A	.048-.052 Dia.	1.22-1.32 Dia.
B	.20	5.08
C	.36-.37	9.14-9.40
D	2.74	69.85
E	1.137-1.237	28.33-31.42

Dimensional Tolerance Inches .XX^{1.00}, .XXX^{1.005}



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (At $T_A = 25^\circ\text{C}$ unless otherwise specified)

MQSI PART NO.	Peak Repetitive Reverse Voltage (Volts)	RMS Reverse Voltage (Volts)	Power Dissipation in V_{BR} Region For 100 μsec Square Wave (Watts)	Peak Surge Current $\frac{1}{2}$ Cycle at 60 Hz (non-rep) (Fig. 2) (Amps)	Avg. Forward Current at $T_A = 40^\circ\text{C}$ (Fig. 1) (Amps)	Junction Operating and Storage Temperature Range ($^\circ\text{C}$)	Minimum Avalanche Voltage (Volts)	Maximum Avalanche Voltage (Volts)	Maximum Instantaneous Forward Voltage Drop at 3 Amps (Fig. 3) (Volts)	Reverse Maximum Reverse Current At Rated V_{RM} (Fig. 4) (μA)	Maximum Recovery Time At $I_F = 1$ Amp $I_R = 2$ Amp $t_{RR} = 0.5$ Amp (nsec)
	V_{RRM}	$V_{R(RMS)}$	P_{RM}	I_{FSM}	I_o	T_J, T_{STG}	$V_{(BF)}$	$V_{(BR)}$	V_{FM}	I_{RM}	t_r

CONTROLLED AVALANCHE

V322	200	140	500	100	3	-50 to +150	250	700	1.2	I_R, T_J 5 @25 $^\circ\text{C}$ 1000 @150 $^\circ\text{C}$ 500 @125 $^\circ\text{C}$ 100 @100 $^\circ\text{C}$	NA
V324	400	280					450	900			
V326	600	420					650	1100			
V328	800	560					850	1300			

NON-CONTROLLED AVALANCHE

V330	50	35	NA	100	3	-50 to -150	NA	NA	1.2	I_R, T_J 5 @25 $^\circ\text{C}$ 100 @150 $^\circ\text{C}$	NA
V331	100	70									
V332	200	140									
V334	400	280									
V336	600	420									
V338	800	560									
V3310	1000	700									

FAST RECOVERY

V330X	50	35	NA	75	3	-50 to +135	NA	NA	1.4	I_R, T_J 10 @25 $^\circ\text{C}$ 4000@ 125 $^\circ\text{C}$	200
V331X	100	70									
V332X	200	140									
V334X	400	280									
V336X	600	420									

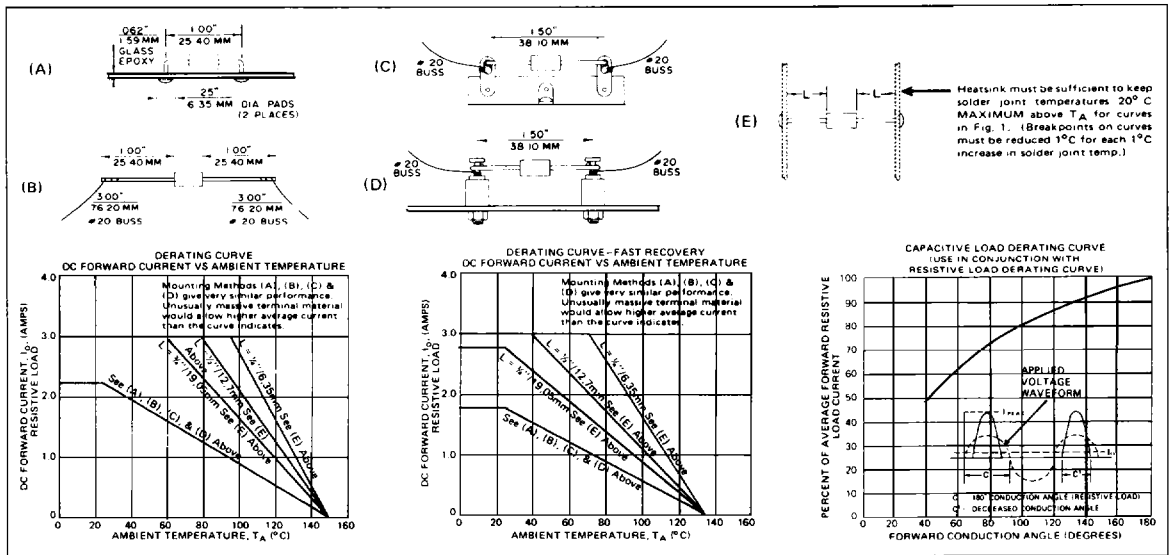


FIGURE 1

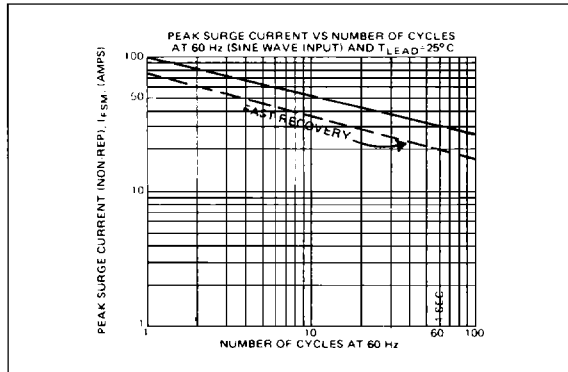


FIGURE 2

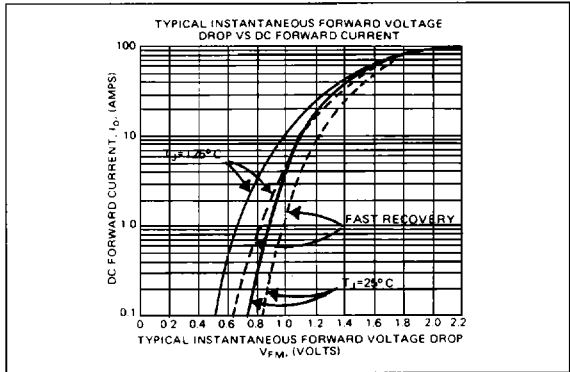


FIGURE 3

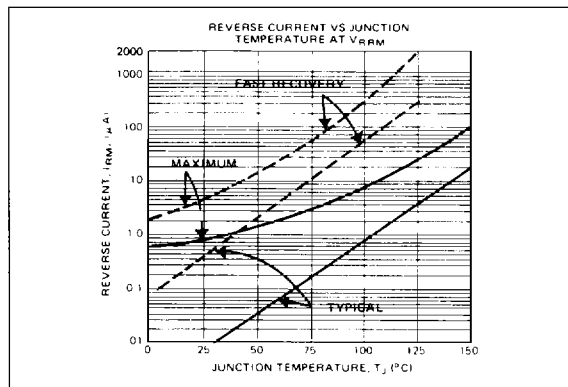


FIGURE 4

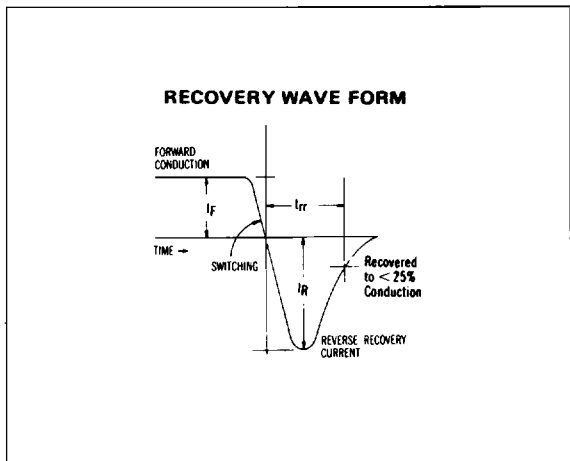


FIGURE 5

