

3 Amp Diffused Silicon Epoxy Rectifiers with 200 Amp Peak Surge Rating

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

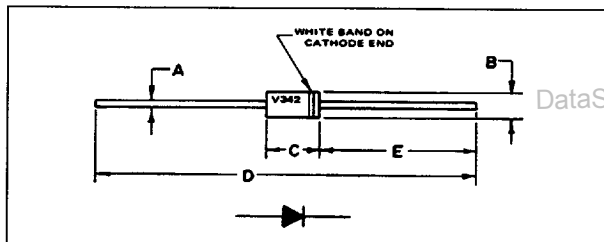
Non-Controlled Avalanche Types with 50V, 100V, 200V, 400V, 600V, 800V, and 1000V V_{RRM} Ratings

Fast Recovery Types with 200 Nanosecond Maximum t_{rr}

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	28.93-31.42

Dimensional Tolerance Inches .XX[±].02, .XXX[±].005



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

MOSI PART NO.	Peak Repetitive Reverse Voltage (Volts)	RMS Reverse Voltage (Volts)	Power Dissipation in V_{RM} 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} (μA) (Fig. 4)	Maximum Recovery Time At $I_F = 1$ Amp $I_R = 2$ Amp $I_{RR} = 0.5$ Amp (nsec)
	V_{RRM}	$V_{R(RMS)}$	P_{RM}	I_{FSM}	I_O	T_J, T_{STG}	$V_{(BR)}$	$V_{(BR)}$	V_{FM}	I_{RM}	t_r
V342	200	140	900	200	3	-50 to +150	250	700	1.1	I_R, T_J 5 @ 25 $^\circ\text{C}$ 100 @ 150 $^\circ\text{C}$	NA
V344	400	280					450	900			
V346	600	420					650	1100			
V348	800	560					850	1300			

CONTROLLED AVALANCHE

V342	200	140	900	200	3	-50 to +150	250	700	1.1	I_R, T_J 5 @ 25 $^\circ\text{C}$ 100 @ 150 $^\circ\text{C}$	NA
V344	400	280					450	900			
V346	600	420					650	1100			
V348	800	560					850	1300			

NON-CONTROLLED AVALANCHE

V350	50	35	NA	200	3	-50 to +150	NA	NA	1.1	I_R, T_J 5 @ 25 $^\circ\text{C}$ 100 @ 150 $^\circ\text{C}$	NA
V351	100	70									
V352	200	140									
V354	400	280									
V356	600	420									
V358	800	560									
V3510	1000	700									

FAST RECOVERY

V350X	50	35	NA	150	3	-50 to +135	NA	NA	1.4	I_R, T_J 10 @ 25 $^\circ\text{C}$ 2000 @ 125 $^\circ\text{C}$	200
V351X	100	70									
V352X	200	140									
V354X	400	280									
V356X	600	420									

