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(212) 227-6005

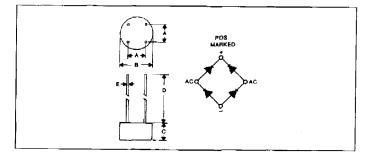
FAX: (973) 376-8960

VE27 - VE108

1 Amp Epoxy Bridge Rectifiers

Controlled Avalanche Series with 250V, 450V, 650V, and 850V Minimum Avalanche Ratings Non-controlled Avalanche Series with 50V, 100V, 200V, 400V, 600V, 800V, and 1000V V_{RRM} Ratings Glass Passivated Silicon Chips

LTR.	INCHES	MILLIMETER				
A B C D E	.185215 .350365 .190215 1.0 MIN, .022028 DIA,	4,70-5,46 8,89-9,27 4,83-5,46 25,4 MIN ,558-,711 DIA				



VE Series

MAXIMUM RATINGS (At T_A = 25°C unless otherwise noted)

RATINGS	SYMBOL	CONTROLLED AVALANCHE				NON-CONTROLLED AVALANCHE							
Series Number		VE27	VE47 VE67		VE87	VE08	VE18	VE28	VE48	VE68	VE88	VE108	UNITS
DC Blocking Voltage Working Peak Reverse Voltage Peak Repetitive Reverse Voltage	V _{RM} V _{RWM} V _{68M}	200	400	600	800	50	100	200	400	600	800	1000	Volts
RMS Reverse Voltage	V _{R(RMS)}	140	280	420	560	35	70	140	280	420	560	700	Volts
Power Dissipation in V _(BH) Region for 100 µSEC Square Wave	P _{RM}		NA							Watts			
Continuous Power Dissipation in V _(BP) Region at T _A = 65°C	P _H		NA							Watts			
Peak Surge Current, 1/2 Cycle at 60 Hz. (Non-Rep) at T _A = 65°C (Fig. 2)	I _{FSM}	25									Amps		
Peak Surge Current, 1 sec at 60 Hz and T _A = 65°C (Fig. 2)	I _{FRM}	4										Amps	
Avg. Forward Current at T _A = 65°C (Fig. 1)	I _O	1										Amps	
Junction Operating and Storage Temperature Range	T _J , T _{STG}	- 50 to + 150										°C	
Max Soldering Temperature & Time		10 Sec at 265°C										_	

ELECTRICAL CHARACTERISTICS (At TA = 25°C unless otherwise noted)

CHARACTERISTICS	SYMBOL	CONTROLLED AVALANCHE				NON-CONTROLLED AVALANCHE							
Series Number		VE27	VE47	VE67	VE87	VE08	VE18	VE28	VE48	VE68	VE88	VE108	
Minimum Avalanche Voltage	V _(BB)	250	450	650	850							1.2.00	Volts
Maximum Avalanche Voltage	V _(BR)	700	900	1100	1300								Volts
Maximum Instantaneous Forward Voltage Drop (Per Diode) at 1 Amp (Fig. 3)	V _{FM}	1.2											Volt
Maximum Reverse Current at Rated V _{RM}	I _{BM}	5											μA
Maximum Reverse Current at Rated V _{BM} at T _J = 125°C (Fig. 4)	lav	500											μА
Insulation strength from Circuit to case (Min.)							2000						Vdc
Thermal Resistance (Typ) Junction to Ambient	RoJa						45					_	°C/W



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