



MINIATURE PLASTIC SILICON RECTIFIER

VOLTAGE 50 to 1000 Volts CURRENT 1.0 Amperes

FEATURES

- High rellability.
- Low leakage.
- Low forward voltage drop.
- High current capability.
- Exceeds environmental standards of MIL-S-19500 / 228
- Lead free in comply with EU RoHS 2002/95/EC directives

MECHANICALDATA

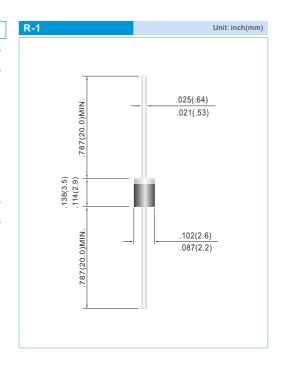
• Case: Molded plastic, R-1

• Epoxy: UL 94V-O rate flame retardant.

• Lead: MIL-STD-750 method 2026

• Mounting Position: Any

• Weight: 0.0064 ounce, 0.181 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Resistive or inductive load, 60Hz.

PARAMETER	SYMBOL	1A1	1A2	1A3	1A4	1A5	1A6	1A7	UNITS
Maximum Recurrent Peak Reverse Voltage		50	100	200	400	600	800	1000	V
Maximum RMS Voltage		35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Current .375"(9.5mm) lead length at T _A =50°C	I _{F(AV)}	1.0							А
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I _{FSM}	30							А
Maximum Forward Voltage at 1.0A	V _F	1.1							V
Maximum DC Reverse Current at T _J =25°C Rated DC Blocking Voltage T _J =100°C	I _R	5.0 500							μΑ
Typical Junction capacitance (Note 1)	C _J	15						pF	
Typical Thermal Resistance	R _{eJA}	60					°C / W		
Operating Junction and Storage Temperature Range	T _J ,T _{STG}	-55 to +150						°C	

NOTES:

1. Measured at 1MHz and applied reverse voltage of 4.0 volts.





RATING AND CHARACTERISTIC CURVES

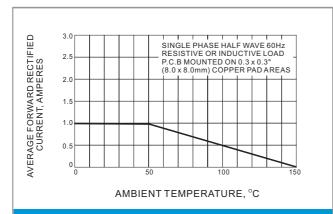


Fig.1 FORWARD CURRENT DERATING CURVE

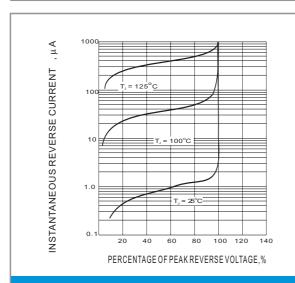


Fig.3-TYPICAL REVERSE CHARACTERISTIC

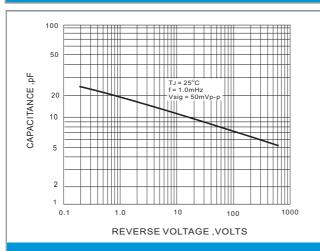
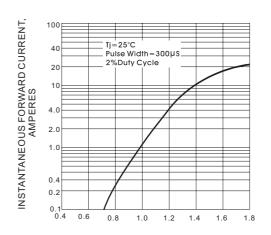


Fig.5 TYPICAL JUNCTION CAPACITANCE



INSTANTANEOUS FORWARD VOLTAGE, VOLTS

Fig.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

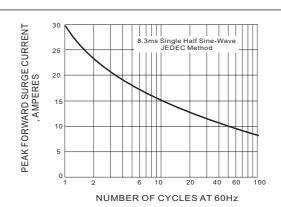


Fig.4-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

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Part No_packing code_Version

1A1_AX_00001

1A1_AX_10001

1A1_AY_00001

1A1_AY_10001

1A1_B0_00001

1A1_B0_10001

1A1_R2_00001

1A1_R2_10001

For example:



Packing Code XX			Version Code XXXXX				
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code	
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number	
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number	
Bulk Packing (B/P)	В	13"	2				
Tube Packing (T/P)	Т	26mm	X				
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y				
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U				
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D				

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