



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

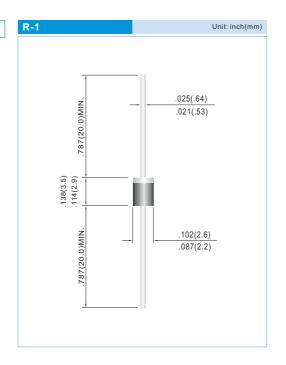
• Case: Molded plastic, R-1

• 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	1 A 1	1A2	1A3	1A4	1A5	1A6	1 A 7	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							Α
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)	CJ	15							pF
Typical Thermal Resistance	$R_{_{\theta JA}}$	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.

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RATING AND CHARACTERISTIC CURVES

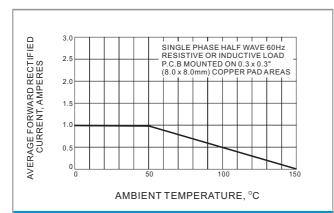


Fig.1 FORWARD CURRENT DERATING CURVE

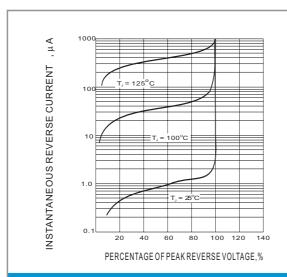


Fig.3-TYPICAL REVERSE CHARACTERISTIC

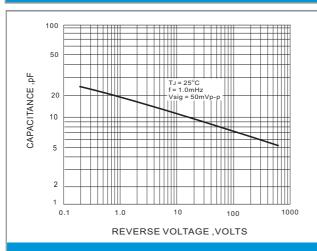
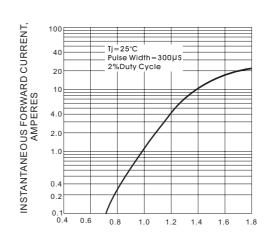


Fig.5 TYPICAL JUNCTION CAPACITANCE



INSTANTANEOUS FORWARD VOLTAGE, VOLTS

Fig.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

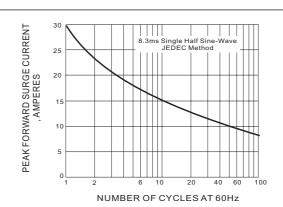


Fig.4-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

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Part No_packing code_Version

1A1_AX_00001

1A1_AX_10001

1A1_AY_00001

1A1_AY_10001

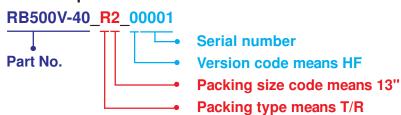
1A1_B0_00001

1A1_B0_10001

1A1_R2_00001

1A1_R2_10001

For example:



Packing Code XX			Version Code XXXXX				
Packing type	1st Code	Packing size code	2 nd Code	HF or RoHS	1st Code	2 nd ~5 th Code	
Tape and Ammunition Box (T/B)	A	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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