



MINIATURE GLASS PASSIVATED JUNCTION PLASTIC RECTIFIER

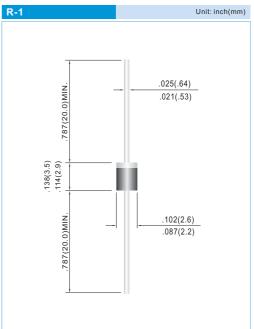
VOLTAGE 50 to 1000 Volts CURRENT 1.0 Amperes

FEATURES

- Plastic package has Underwriters Laboratories Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound.
- Glass passivated junction version of 1A1G thru 1A7G in R-1 package.
- Exceeds environmental standards of MIL-S-19500/228
- Lead free in comply with EU RoHS 2002/95/EC directives

MECHANICAL DATA

- Case: Molded plastic, R-1
- Terminals: Axial leads, solderable to MIL-STD-750, Method 2026
- Polarity: Color Band denotes cathode end
- Mounting Position: Any
- Weight: 0.0068 ounce, 0.1937 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Resistive or inductive load, 60Hz.

PARAMETER	SYMBOL	1A1G	1A2G	1A3G	1A4G	1A5G	1A6G	1A7G	UNITS
Maximum Recurrent Peak Reverse Voltage		50	100	200	400	600	800	1000	٧
Maximum RMS Voltage		35	70	140	280	420	560	700	٧
Maximum DC Blocking Voltage		50	100	200	400	600	800	1000	V
Maximum Average Forward Current .375"(9.5mm) lead length at T _A =75°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						Α	
Maximum Forward Voltage at 1.0A	V _F	1.1							٧
Maximum DC Reverse Current at T _J =25°C Rated DC Blocking Voltage T _J =100°C	I _R	1 50					μΑ		
Typical Junction capacitance (Note 1)	C 1	15					pF		
Typical Thermal Resistance	R _{eJA}	50						°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 VDC.

^{*}JEDEC Registered Value.





RATING AND CHARACTERISTIC CURVES

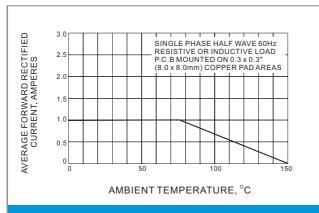


Fig.1 FORWARD CURRENT DERATING CURVE

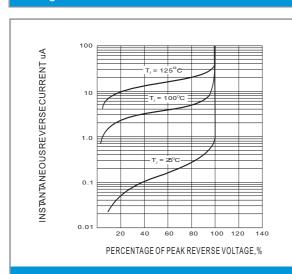


Fig.3-TYPICALREVERSECHARACTERISTIC

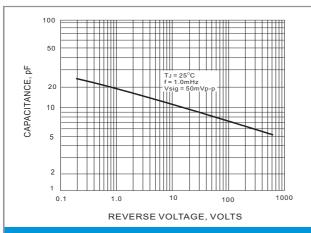
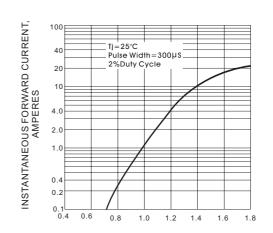


Fig.5 TYPICAL JUNCTION CAPACITANCE



INSTANTANEOUS FORWARD VOLTAGE, VOLTS

Fig.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

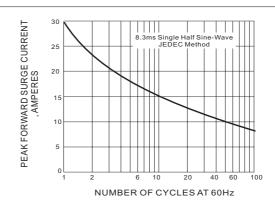


Fig.4-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

STAD-FEB.04.2009 PAGE . 2





Part No_packing code_Version

1A1G_AX_00001

1A1G_AX_10001

1A1G_AY_00001

1A1G_AY_10001

1A1G_B0_00001

1A1G_B0_10001

1A1G_R2_00001

1A1G_R2_10001

For example:



Packing Code XX				Version Code XXXXX					
Packing type	1st 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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