



GLASS PASSIVATED JUNCTION ULTRAFAST RECOVERY RECTIFIER

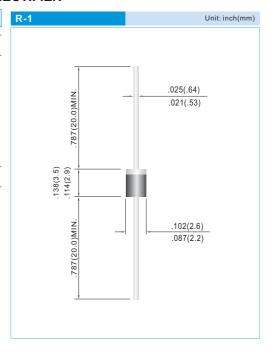
VOLTAGE 50 to 600 Volts CURRENT 1.0 Amperes

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound
- Exceeds environmental standards of MIL-S-19500/228.
- Ultra Fast switching for high efficiency.
- Lead free in comply with EU RoHS 2002/95/EC directives

MECHANICAL DATA

- Case: Molded plastic, R-1
- Terminals: Axial leads, solderable per MIL-STD-750, Method 2026
- Polarity: Band denotes cathode
- 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	1U1G	1U2G	1U3G	1U4G	1U5G	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50 100 200		400	600	V	
Maximum RMS Voltage	V _{RMS}	35 70 140 28			280	420	V
Maximum DC Blocking Voltage	V _{DC}	50 100 200 400			400	600	V
Maximum Average Forward Current .375"(9.5mm) lead length at T _A =55°C	I _{F(AV)}		А				
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I _{FSM}		А				
Maximum Forward Voltage at 1.0A	V _F	1.0 1.3			1.3	1.7	V
Maximum DC Reverse Current T _J =25°C at Rated DC Blocking Voltage T _J =125°C	I _R	1.0 150					μА
Typical Junction capacitance (Note 1)	C J	17					pF
Typical Thermal Resistance(Note 2)	R _{eJA}		°C / W				
Maximum Reverse Recovery Time (Note 3)	t _{rr}	50 1			100	ns	
Operating Junction and Storage Temperature Range	T _J ,T _{STG}	-55 to +150					°C

NOTES:

- 1. Measured at 1 MHz and applied reverse voltage of 4.0 VDC.
- 2. Thermal Resistance from Junction to Ambient and from Junction to lead length 0.375"(9.5mm) P.C.B. mounted.
- 3. Reverse Recovery Time $I_F \!\!=\! .5 A$, $I_R \!\!=\! 1 A$, $I_{rr} \!\!=\! .25 A$





RATING AND CHARACTERISTIC CURVES

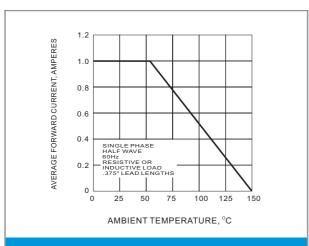


Fig.1 FORWARD CURRENT DERATING CURVE

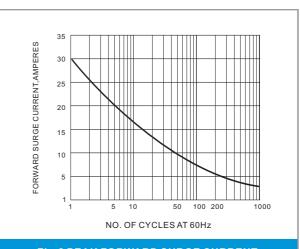


Fig.2 PEAK FORWARD SURGE CURRENT

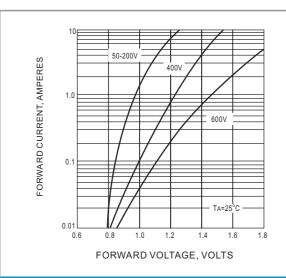


Fig.3 FORWARD CHARACTERISTICS

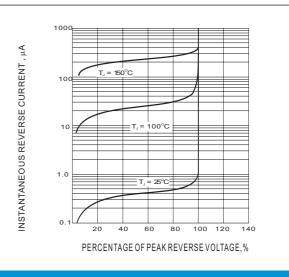
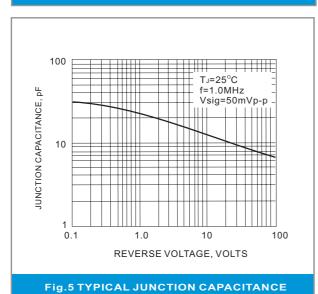


Fig.4-TYPICAL REVERSE CHARACTERISTIC







Part No_packing code_Version

1U1G_AX_00001

1U1G_AX_10001

1U1G_AY_00001

1U1G_AY_10001

1U1G_B0_00001

1U1G_B0_10001

1U1G_R2_00001

1U1G_R2_10001

For example:



Packing Code XX				Version Code XXXXX			
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1st 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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