



DATA SHEET

1F1G~1F5G

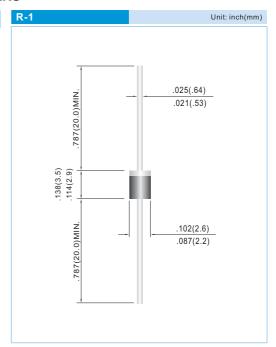
GLASS PASSIVATED JUNCTION FAST RECOVERY RECTIFIERS

1.0 Amperes VOLTAGE 50 to 600 Volts CURRENT **FEATURES**

- · High current capability.
- Plastic package has Underwriters Laboratories Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound.
- Low leakage.
- Fast switching for high efficiency.
- Exceeds environmental standards of MIL-S-19500/228
- In compliance 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: 0.0064 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	1F1G	1F2G	1F3G	1F4G	1F5G	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	V
Maximum Average Forward Current .375"(9.5mm) lead length at T _A =55°C	I _{F(AV)}	1.0					А
Peak Forward Surge Current : 8.3 ms single half sine- wave superimposed on rated load(JEDEC method)	I _{FSM}	30					А
Maximum Forward Voltage at 1.0A	V _F	1.3					V
Maximum DC Reverse Current T _J =25°C at Rated DC Blocking Voltage T _J =100°C	I _R	5.0 150					uA
Typical Junction capacitance (Note 1)	C¹	12					pF
Maximum Reverse Recovery Time	t _{rr}	150 250			250	ns	
Typical Thermal Resistance	R _{eJA}	67				°C / W	
Operating Junction and Storage Temperature Range	T _J ,T _{STG}	-55 TO +150					°C

NOTES:1. Reverse Recovery Test Conditions: I_F=.5A, I_R=1A, I_{rr}=.25A

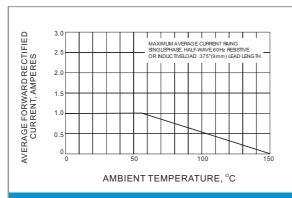
- 2. Measured at 1 MHz and applied reverse voltage of 4.0 VDC
- 3. Thermal resistance from junction to ambient and from junction to lead length 0.375"(9.5mm) P.C.B. mounted with 0.22 x 0.22" (5.5 x 5.5mm) copper pads.

STAD-FEB.09.2007 PAGE . 1





RATING AND CHARACTERISTIC CURVES





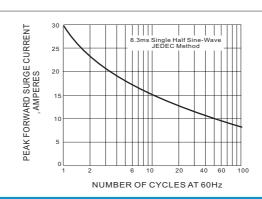


Fig.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

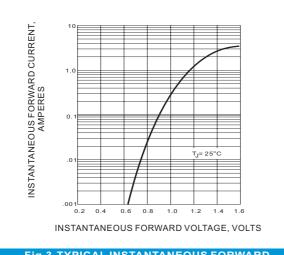


Fig.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

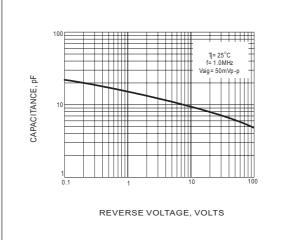


Fig.4 TYPICAL JUNCTION CAPACITANCE

LEGAL STATEMENT

Copyright PanJit International, Inc 2007

The information presented in this document is believed to be accurate and reliable. The specifications and information herein are subject to change without notice. Pan Jit makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose. Pan Jit products are not authorized for use in life support devices or systems. Pan Jit does not convey any license under its patent rights or rights of others.

STAD-FEB.09.2007 PAGE . 2