



1A1G~1A7G

MINIATURE GLASS PASSIVATED JUNCTION PLASTIC RECTIFIER

Voltage Range 50 to 1000 Volts

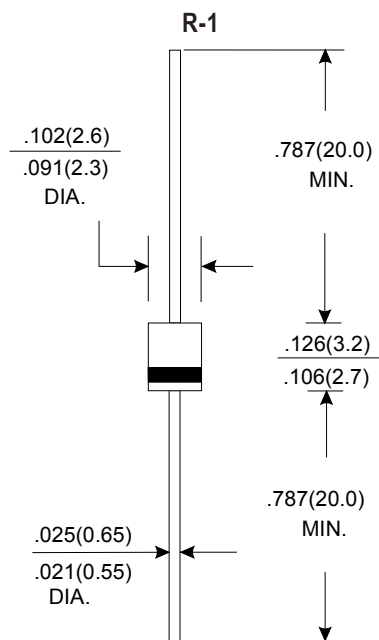
Current 1.0 Amperes

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
- * Pb free product are available : 99% Sn above can meet Rohs environment substance directive request

Mechanical Data

Case: Molded plastic, R-1
 Terminals: Axial leads, solderable to MIL-STD-202G, Method 208
 Polarity: Color Band denotes cathode end
 Mounting Position: Any
 Weight: 0.064 ounce, 0.181 gram



Dimensions in millimeters

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 | V _{RRM} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum RMS Voltage | V _{RMS} | 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 TA=75°C | I _{AV} | 1.0 | | | | | | | A |
| Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load(JEDEC method) | I _{FSM} | 30 | | | | | | | A |
| Maximum Forward Voltage at 1.0A | V _F | 1.1 | | | | | | | V |
| Maximum DC Reverse Current at TA=25°C Rated DC Blocking Voltage TA=100°C | I _R | 5.0 50 | | | | | | | uA |
| Typical Junction capacitance (Note 1) | C _J | 15 | | | | | | | pF |
| Typical Thermal Resistance | R _{θJA} | 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.



1F1G~1F7G

GLASS PASSIVATED JUNCTION FAST RECOVERY RECTIFIERS

Voltage Range 50 to 1000 Volts
Current 1.0 Amperes

Rating and Characteristic Curves

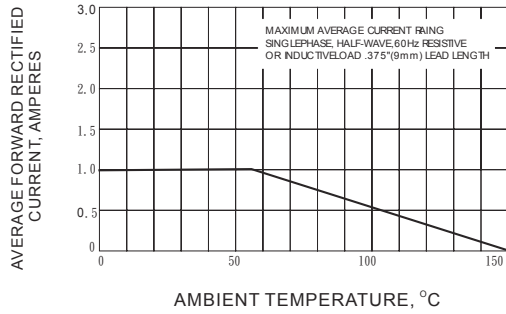


Fig. 1 FORWARD CURRENT DERATING CURVE

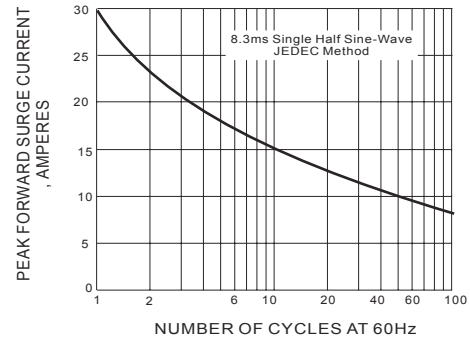


Fig. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

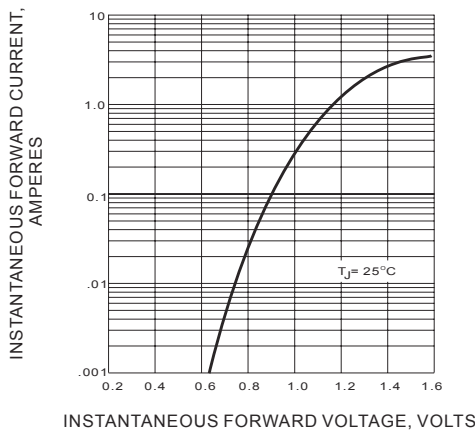


Fig. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

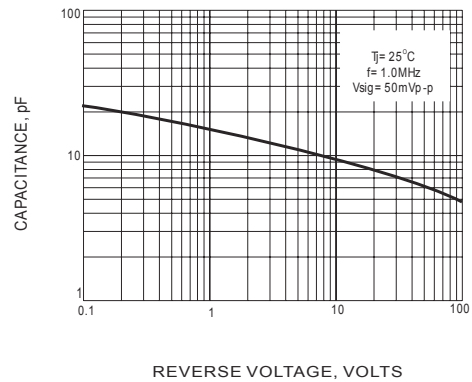


Fig. 4 TYPICAL JUNCTION CAPACITANCE