



# G110B THRU G110M

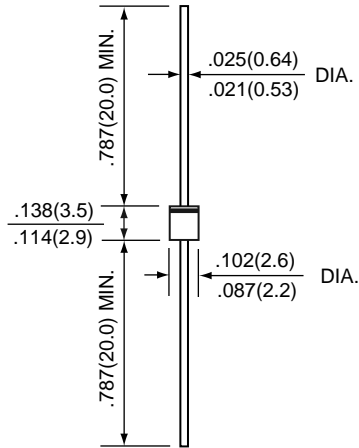
## GLASS PASSIVATED JUNCTION RECTIFIER

*Reverse Voltage - 100 to 2000 Volts*

*Forward Current - 1.0 Ampere*



**R-1**



\*Dimensions in inches and (millimeters)

### FEATURES

- \* Glass passivated cavity-free junction
- \* Capable of meeting environmental standards of MIL-S-19500
- \* 1.0 Ampere operation at  $T_A=75^{\circ}\text{C}$  with no thermal runaway
- \* High temperature soldering guaranteed:  $260^{\circ}\text{C}/10$  seconds, 0.375" (9.5mm) lead length, 5lbs. (2.3 kg) tension
- \* Plastic package has Underwriters Laboratory Flammability Classification 94V-0

### MECHANICAL DATA

**Case :** R -1 molded plastic over glass body  
**Terminals :** Tin Plated, solderable per MIL-STD-750, Method 2026  
**Polarity :** Color band denotes cathode end  
**Weight :** 0.064 ounces , 0.181 gram

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

<i>Ratings at 25 °C ambient temperature unless otherwise specified.</i>	SYMBOLS	G110B	G110D	G110G	G110J	G110K	G110M	UNITS
Maximum repetitive peak reverse voltage	VRRM	100	200	400	600	800	1000	Volts
Maximum RMS voltage	VRMS	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	VDC	100	200	400	600	800	1000	Volts
Maximum average forward rectified current 0.375" (9.5mm) lead length (SEE FIG.1)	I (AV)	1.0						Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	25						Amps
Maximum instantaneous forward voltage at 1.0 A	VF	1.0						Volts
Maximum DC reverse current at rated DC blocking voltage	IR	5 100						uA
Typical junction capacitance (NOTE 1)	CJ	15						pF
Typical thermal resistance	R θJA	50						°C / W
Operating junction and storage temperature range	TJ,TSTG	-65 to +175						°C

NOTES : (1) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts.

# RATINGS AND CHARACTERISTIC CURVES G110B THRU G110M

FIG. 1 - FORWARD CURRENT DERATING CURVE

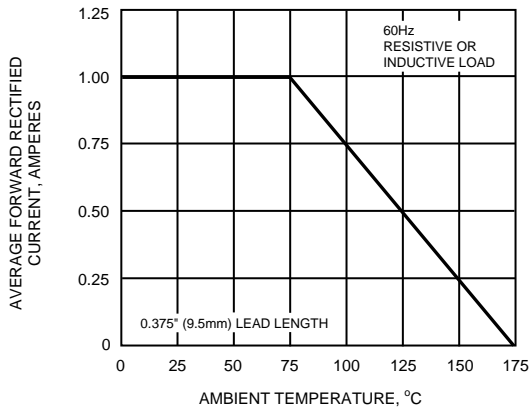


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

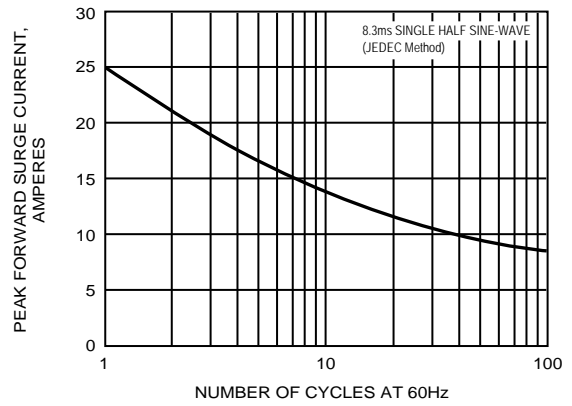


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

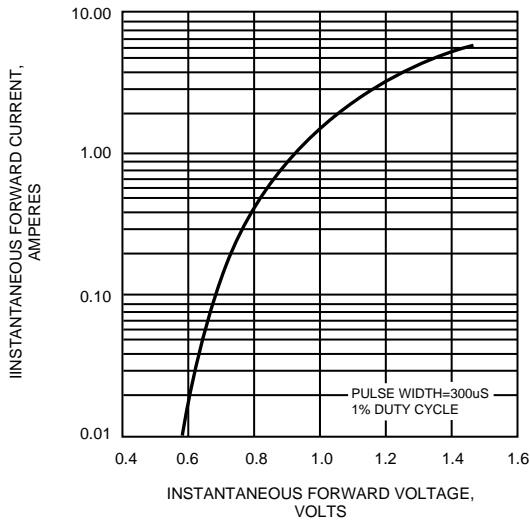


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

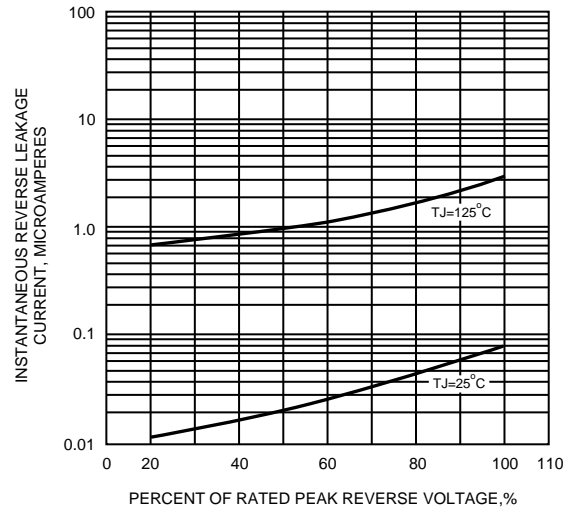


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

