



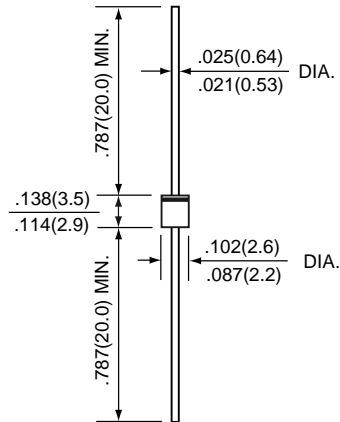
# G110B THRU G110M

## 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

Ratings at $25^{\circ}\text{C}$ ambient temperature unless otherwise specified.	SYMBOLS	G110B	G110D	G110G	G110J	G110K	G110M	UNITS
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	100	200	400	600	800	1000	Volts
Maximum RMS voltage	V <sub>RMS</sub>	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	V <sub>DC</sub>	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)	I <sub>FSM</sub>	25						Amps
Maximum instantaneous forward voltage at 1.0 A	V <sub>F</sub>	1.0						Volts
Maximum DC reverse current at rated DC blocking voltage	I <sub>R</sub>	5 100						$\mu\text{A}$
Typical junction capacitance (NOTE 1)	C <sub>J</sub>	15						pF
Typical thermal resistance	R <sub><math>\theta</math>JA</sub>	50						$^{\circ}\text{C} / \text{W}$
Operating junction and storage temperature range	T <sub>J</sub> ,T <sub>STG</sub>	-65 to +175						$^{\circ}\text{C}$

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

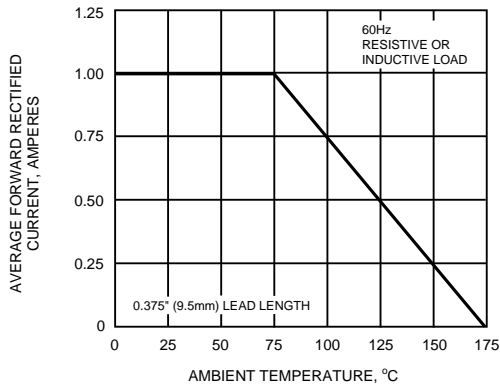


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

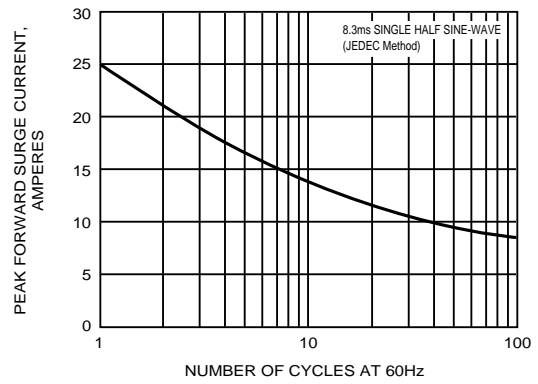


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

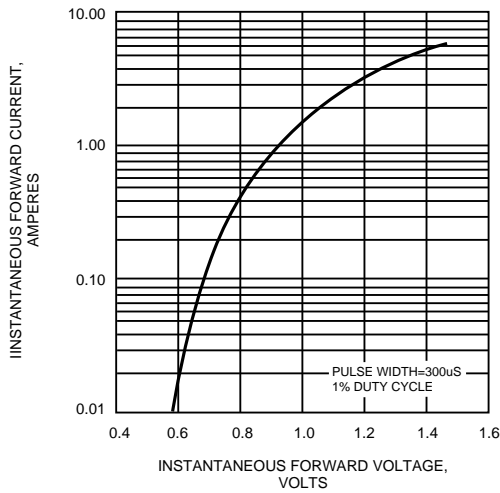


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

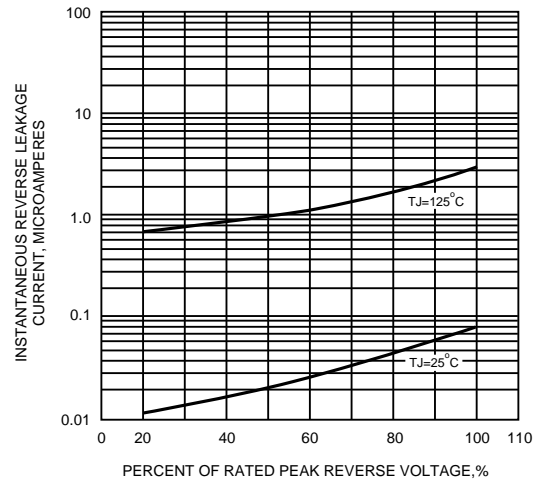


FIG.5 - TYPICAL JUNCTION CAPACITANCE

