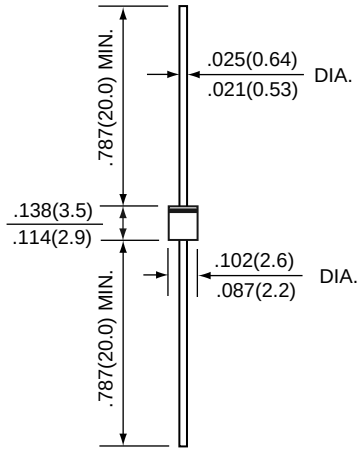
G110B THRU G110M

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°C with no thermal runaway
* High temperature soldering guaranteed: 260°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 ounes , 0.181 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.	*SYMBOLS*	G110B	G110D	G110G	G110J	G110K	G110M	*UNITS*
Maximum repetitive peak reverse voltage	V_{RRM}	100	200	400	600	800	1000	Volts
Maximum RMS voltage	V_{RMS}	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	V_{DC}	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_{FSM}	25						Amps
Maximum instantaneous forward voltage at 1.0 A	V_F	1.0						Volts
Maximum DC reverse current at rated DC blocking voltage T_A=25°C T_A=125°C	I_R	5 100						uA
Typical junction capacitance (NOTE 1)	C_J	15						pF
Typical thermal resistance	$R_{\theta JA}$	50						°C / W
Operating junction and storage temperature range	T_J,T_{STG}	-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

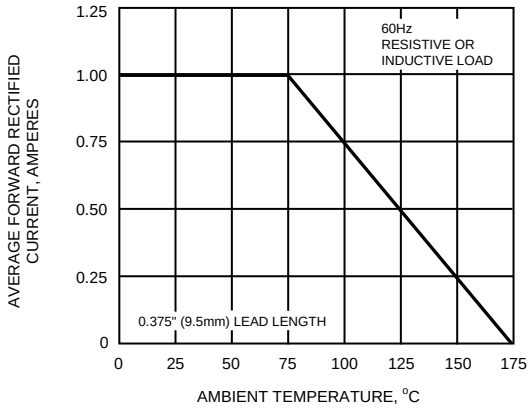


FIG.2 - MAXIMUM NON-REPETITIVE
PEAK FORWARD SURGE CURRENT

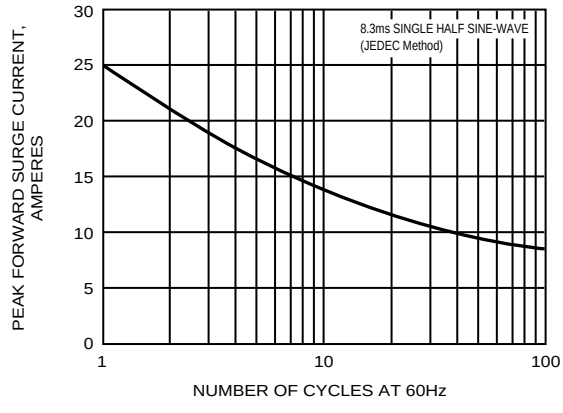


FIG.3 - TYPICAL INSTANTANEOUS
FORWARD CHARACTERISTICS

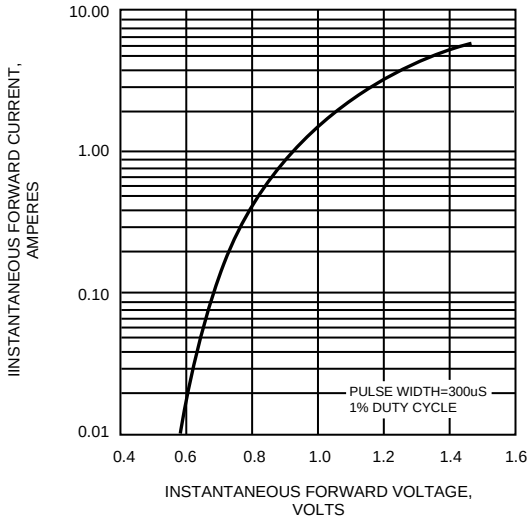


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

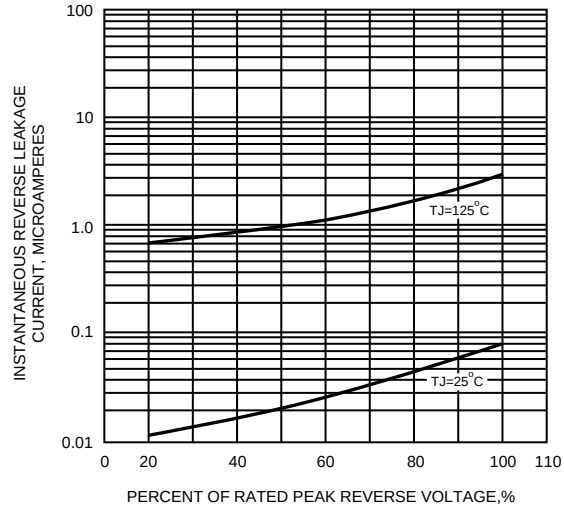


FIG.5 - TYPICAL JUNCTION CAPACITANCE

