



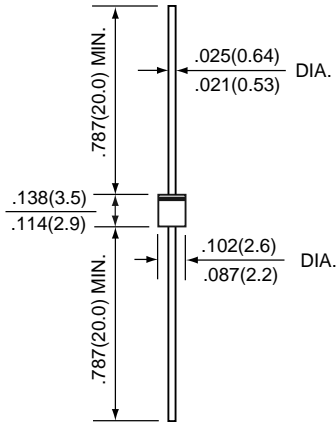
RG110BH THRU RG110MH

SINTERED GLASS PASSIVATED JUNCTION FAST RECOVERY RECTIFIER

Reverse Voltage - 100 to 1000 Volts

Forward Current - 1.0 Ampere

R-1



*Dimensions in inches and (millimeters)



FEATURES

- * Halogen-free type
- * Glass passivated cavity-free junction
- * For use in high frequency rectifier circuits
- * Fast switching for high efficiency
- * 1.0 Ampere operation at TA=55°C with no thermal runaway
- * Typical IR less than 0.1uA
- * 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 ounces , 0.181 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.	SYMBOLS	RG110BH	RG110DH	RG110GH	RG110JH	RG110KH	RG110MH	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	1.3						Volts
Maximum DC reverse current at rated DC blocking voltage	IR	5 50 100						uA
Maximum reverse recovery time (NOTE 1)	trr	150			250		500	nS
Typical junction capacitance (NOTE 2)	CJ	15						pF
Typical thermal resistance (NOTE 3)	R θJA	55						°C / W
Operating junction and storage temperature range	TJ,TSTG	-65 to +175						°C

NOTES : (1) Reverse recovery test condition : IF 0.5A, IR=1.0A, Irr=0.25A
 (2) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts
 (3) Thermal resistance from junction to ambient at 0.375" (9.5mm) lead lengths, P.C.B. mounted.

RATINGS AND CHARACTERISTIC CURVES RG110BH THRU RG110MH

FIG. 1 - FORWARD CURRENT DERATING CURVE

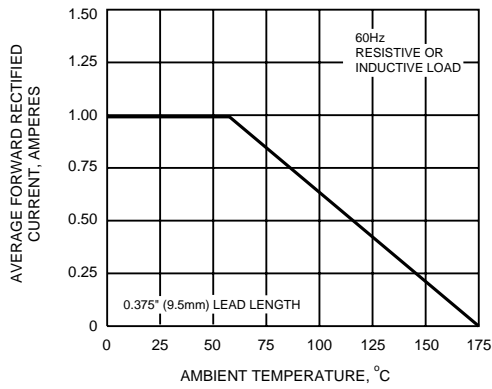


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

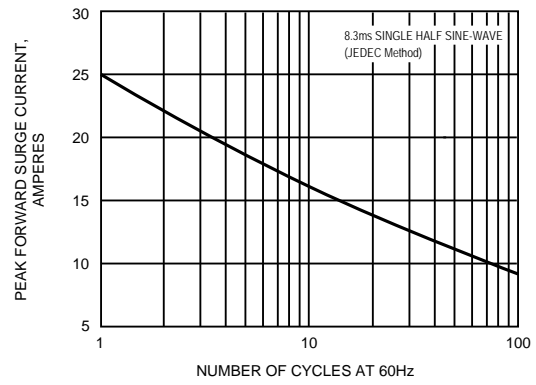


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

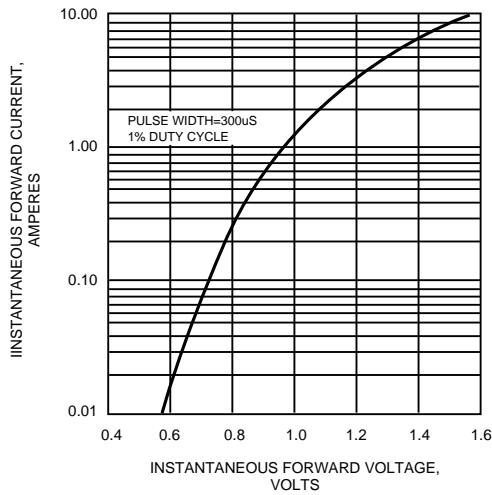


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

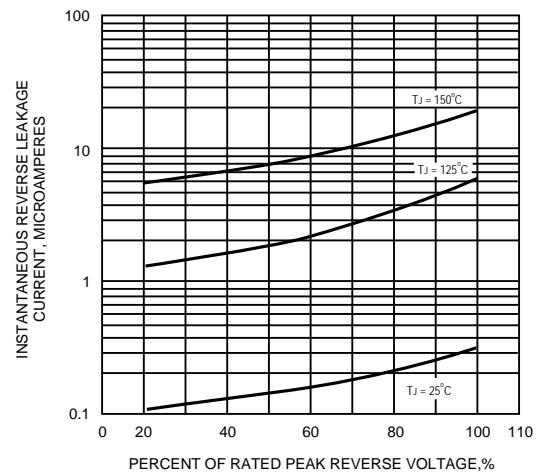


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

