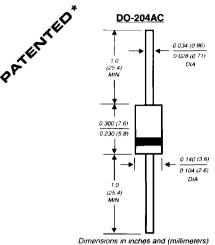
GI810 THRU GI818

GLASS PASSIVATED JUNCTION FAST SWITCHING RECTIFIER

Reverse Voltage - 50 to 1000 Volts

Forward Current - 1.0 Ampere



Dimensions in inches and (millimeters)

* Glass-plastic encapsulation technique is covered by
Patent No. 3.996,602 and brazed-lead assembly by Patent No. 3.930,306



FEATURES

- Plastic package has
 Underwriters Laboratory
 Flammability Classification 94V-0
- High temperature metallurgically bonded construction
- ◆ Glass passivated cavity-free junction
- Capable of meeting environmental standards of MIL-S-19500
- · Fast switching for high efficiency
- 1.0 Ampere operation at T_A=75°C with no thermal runaway
- Typical In less than 0.1μA
- High temperature soldering guaranteed: 350°C/10 seconds 0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: JEDEC DO-204AC molded plastic over glass body Terminals: Plated axial leads, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any Weight: 0.015 ounce, 0.4 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

	SYMBOLS	GI 810	GI 811	GI 812	GI 814	GI 816	GI 817	GI 818	UNITS
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	V _D C	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified current 0.375" (9.5mm) lead length at Ta=75°C	I(AV)	1.0							Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) at Ta=75°C	lFSM	30.0							Amps
Maximum instantaneous forward voltage at 1.0A	VF	VF			1.2				Volts
Maximum DC reverse current TA=25°C at rated DC blocking voltage TA=100°C	lR	10.0 100.0							μА
Maximum reverse recovery time (NOTE 1)	trr	750.0							ns
Typical junction capacitance (NOTE 2)	CJ	25.0					pF		
Typical thermal resistance (NOTE 3)	Reja	45.0					°C/W		
Operating junction and storage temperature range	TJ, TSTG	-65 to +175							°C

NOTES:

- (1) Reverse recovery test conditions: IF=1.0A, VR=30V, di/dt=50A/μs
- (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 length, P.C.B. mounted



RATINGS AND CHARACTERISTIC CURVES GI810 THRU GI818

