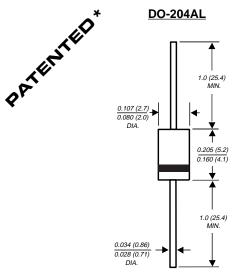
GI250-1 THRU GI250-4

HIGH VOLTAGE GLASS PASSIVATED JUNCTION RECTIFIER

Reverse Voltage - 1000 to 4000 Volts

Forward Current - 0.25 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
- ♦ High temperature metallurgically bonded construction Classification 94V-0
- Glass passivated cavity-free junctions
- Capable of meeting environmental standards of MIL-S-19500
- High temperature soldering guaranteed: 350°C/10 seconds, 0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: JEDEC DO-204AL 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: 0.012 ounce, 0.3 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

		SYMBOLS	GI250-1	GI250-2	GI250-3	GI250-4	UNITS
Maximum repetitive Peak reverse voltage		VRRM	1000	2000	3000	4000	Volts
Maximum RMS voltage		VRMS	700	1400	2100	2800	Volts
Maximum DC blocking voltage		V _{DC}	1000	2000	3000	4000	Volts
Maximum average forward rectified current 0.375" (9.5mm) lead length at Ta=75°C		I _(AV)	0 .25				Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load at T _A =75°C (JEDEC Method)		IFSM	15.0			Amps	
Maximum instantaneous forward voltage at 0.25A		VF	3.5			Volts	
Maximum DC reverse current at rated DC blocking voltage	T _A =25°C T _A =100°C	I _R	5.0 50.0		μΑ		
Typical reverse recovery time (NOTE 1)		trr	2.0			μs	
Typical junction capacitance (NOTE2)		CJ	3.0			pF	
Typical thermal resistance (NOTE 3)		R⊝JA	130.0			°C/W	
Operating junction and storage temperature range		TJ, TSTG	-65 to +175				°C

NOTES

- (1) Reverse recovery test conditions: 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 length, P.C.B. mounted



RATINGS AND CHARACTERISTIC CURVES GI250-1 THRU GI250-4

FIG. 1 - FORWARD CURRENT DERATING CURVE 0.25 60 Hz RESISTIVE OR INDUCTIVE LOAD AVERAGE FORWARD CURRENT, AMPERES 0.2 0.15 0.1 0.05 0.375" (9.5mm) LEAD LENGTH 0 25 50 100 150 175 0 75 125 AMBIENT TEMPERATURE, °C

