

Silicon Diode

GI250-3

3000V / 0.25A

DATASHEET

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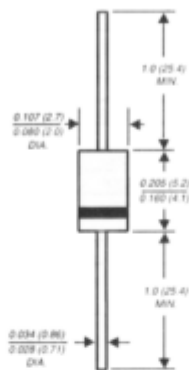
Source: General Semiconductor Databook 1998

GI250-1 THRU GI250-4

HIGH VOLTAGE GLASS PASSIVATED JUNCTION RECTIFIER
 Reverse Voltage - 1000 to 4000 Volts Forward Current - 0.25 Ampere

PATENTED *

DO-204AL



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 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	V _{RRM}	1000	2000	3000	4000	Volts
Maximum RMS voltage	V _{RMS}	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 T _A =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)	I _{FSM}	15.0				Amps
Maximum instantaneous forward voltage at 0.25A	V _F	3.5				Volts
Maximum DC reverse current at rated DC blocking voltage	I _R	5.0 50.0				μA
Typical reverse recovery time (NOTE 1)	t _{rr}	2.0				μs
Typical junction capacitance (NOTE 2)	C _J	3.0				pF
Typical thermal resistance (NOTE 3)	R _{θJA}	130.0				°C/W
Operating junction and storage temperature range	T _J , T _{STG}	-65 to +175				°C

NOTES:

- (1) Reverse recovery test conditions: I_F=0.5A, I_R=1.0A, I_F=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

