



GI250-1 thru GI250-4

0.25 Amp. High Voltage Glass Passivated Junction Rectifiers
Voltage Range 1000 to 4000 Volts Forward Current 0.25 Ampere

Features

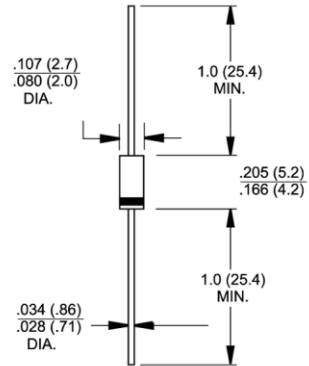
- ◆ Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- ◆ High temperature metallurgically bonded construction
- ◆ Cavity-free glass passivated junction
- ◆ Capable of meeting environmental standards of MIL-S-19500
- ◆ High temperature soldering guaranteed: 350°C/10 seconds, 0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension



DO-204AL (DO-41)

Mechanical Data

- ◆ Case: JEDEC DO-204AL (DO-41), 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, 0.335 gram



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	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 $T_A=75^\circ\text{C}$	$I_{F(AV)}$	0.25				Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load at $T_A=75^\circ\text{C}$ (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 $T_A=25^\circ\text{C}$ $T_A=100^\circ\text{C}$	I_R	5.0 50				μA
Typical reverse recovery time at $I_F=0.5\text{A}$, $I_R=1.0\text{A}$, $t_r=0.25\text{A}$	t_{rr}	2.0				μs
Typical junction capacitance at 4.0V, 1MHz	C_J	3.0				pF
Typical thermal resistance (Note 1)	$R_{\theta JA}$	130.0				$^\circ\text{C/W}$
Operating junction and storage temperature range	T_J , T_{STG}	-65 to +175				$^\circ\text{C}$

Notes: 1. Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted

RATINGS AND CHARACTERISTIC CURVES

($T_A = 25^{\circ}\text{C}$ unless otherwise noted)

