

GI250-1 THRU GI250-4

HIGH VOLTAGE GLASS PASSIVATED JUNCTION RECTIFIER

DO-41

Reverse Voltage - 1000 to 4000 Volts

Forward Current - 0.25 Ampere

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: 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									
DIM	inches		m	Nata					
	Min.	Max.	Min.	Max.	Note				
A	0.165	0.205	4.2	5.2					
В	0.079	0.106	2.0	2.7	ф				
С	0.028	0.034	0.71	0.86	ф				
D	1.000	-	25.40	-					

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 $T_{\rm A}{=}75^\circ{\rm C}$	I _(AV)		Amp			
Peak forward surge current 8.3mS single half sine-wave superimposed on rated load (MIL-STD-750D 4066 method) at $\rm T_{A}$ =75 $^{\circ}\rm C$	I _{FSM}	15.0				Amps
Maximum instantaneous forward voltage at 0.25A	V _F		Volts			
$\begin{array}{llllllllllllllllllllllllllllllllllll$	I _R		μA			
Typical reverse recovery time (Note 1)	T _{rr}		μS			
Typical junction capacitance (Note 2)	C		ρF			
Typical thermal resistance (Note 3)	R _{oja}	130.0				°C/W
Operating junction and storage temperature range	T _J , T _{stg}	-60 to +175				°C

Notes:

(1) Reverse recovery test conditions: I_=0.5A, I_=1.0A, I_=0.25A

(2) Measured at 1.0MHz 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







FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS







