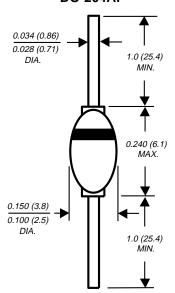


GI1101 THRU GI1104

Glass Passivated Ultrafast Rectifier

Reverse Voltage 50 to 200 V Forward Current 2.5 A





Dimensions in inches and (millimeters)

Features

- High temperature metallurgically bonded construction
- · Glass passivated cavity-free junction
- Superfast recovery time for high efficiency
- Ultrafast recovery time for high efficiency
- Low forward voltage, high current capability
- Capable of meeting environmental standards of MIL-S-19500
- Hermetically sealed package
- · High surge capability
- High temperature soldering guaranteed: 250°C/10 seconds, 0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension

Mechanical Data

Case: JEDEC DO-204AP solid glass body **Terminals:** Plated axial leads, solderable per

MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any **Weight:** 0.02 ounce, 0.56 gram

Maximum Ratings & Thermal Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

		Symbols	GI1101	GI1102	GI1103	GI1104	Units
Maximum repetitive peak reverse voltage		VRRM	50	100	150	200	٧
Maximum RMS voltage		VRMS	35	70	105	140	٧
Maximum DC blocking voltage		VDC	50	100	150	200	V
Maximum average forward rectified current at 0.375" (9.5mm) lead length (SEE FIG. 1)		lF(AV)	2.5 2.0			2.0	Α
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method) at rated TL		I _{FSM}	50				Α
Typical thermal resistance (NOTE 1, 2)	-junction to ambient	RΘJA	65 20			°C/W	
	-junction to lead	R⊝JL					
Operating junction and storage temperature range		TJ, TSTG	-65 to +175 -65 to 150		°C		

Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

		Symbols	GI1101	GI1102	GI1103	GI1104	Units
Maximum instantaneous forward voltage at 2.0A		VF	0.95			1.25 (NOTE 3)	V
Maximum DC reverse current at rated DC blocking voltage	T _A = 25°C T _A =100°C	IR	2.0 50		10 200	μА	
Maximum reverse recovery time IF=0.5A, IR=1.0A, Irr=0.25A		trr	25		50	ns	
Typical junction capacitance at 4V, 1MHz		CJ	45				pF

NOTES

- (1) Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length and mounted on P.C.B. with 0.5 x 0.5" (12 x 12mm) copper pads
- (2) Thermal resistance from junction to lead at 0.375" (9.5mm) lead length with both leads attached to heatsinks
- (3) Tested at IF = 1.0 A



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Ratings and Characteristic Curves (TA = 25°C unless otherwise noted)

