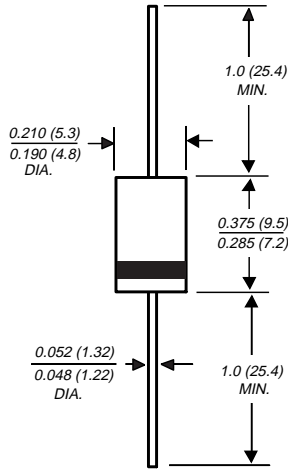


GI910 THRU GI917

MEDIUM-SWITCHING PLASTIC RECTIFIER

Reverse Voltage - 50 to 800 Volts Forward Current - 3.0 Amperes

DO-201AD



Dimensions in inches and (millimeters)

FEATURES

- ◆ Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- ◆ High surge current capability
- ◆ Construction utilizes void-free molded plastic technique
- ◆ High forward current operation
- ◆ Fast switching for high efficiency
- ◆ High temperature soldering guaranteed: 250°C/10 seconds, 0.375 (9.5mm) lead length, 5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: JEDEC DO-201AD molded plastic body

Terminals: Plated axial leads solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.04 ounce, 1.1 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

	SYMBOLS	GI910	GI911	GI912	GI914	GI916	GI917	UNITS
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	Volts
Maximum RMS voltage	VRMS	35	70	140	280	420	560	Volts
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	Volts
Maximum average forward rectified current 0.375" (9.5mm) lead length at TA=90°C	I(AV)	3.0						Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	100.0						Amps
Maximum instantaneous forward voltage at: 3.0A 9.4A, TJ=175°C	VF	1.25 1.10						Volts
Maximum DC reverse current at rated DC blocking voltage TA=25°C TA=100°C	IR	10.0 300.0						µA
Typical junction capacitance (NOTE 1)	CJ	28.0						pF
Maximum reverse recovery time (NOTE 2)	trr	750						ns
Maximum reverse recovery current	IRM(REC)	2.0						Amps
Typical thermal resistance (NOTE 3)	RθJA RθJL	22.0 8.0						°C/W
Operating junction and storage temperature range	TJ , TSTG	-50 to +150						°C

NOTES:

(1) Measured at 1 MHz and applied reverse voltage of 4.0 Volts

(2) Reverse recovery test conditions: IF=1.0A, VR=30V, di/dt=50A/µs, and Irr=10% IRM for measurement of trr

(3) Thermal resistance from junction to ambient and from junction to lead at 0.375" (9.5mm) lead length, both leads equally heat sink

RATINGS AND CHARACTERISTIC CURVES G1910 THRU G1917

FIG. 1 - FORWARD CURRENT DERATING CURVE

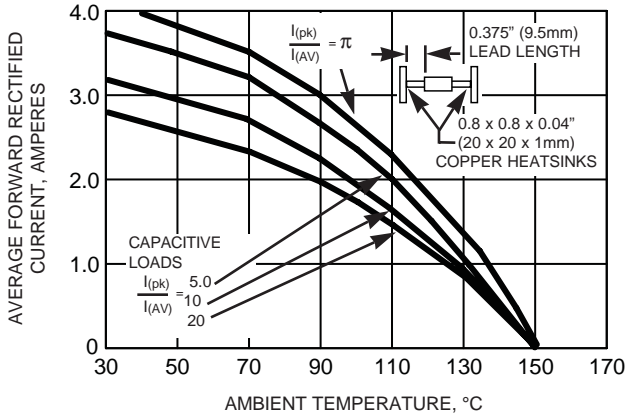


FIG. 2 - MAXIMUM PEAK FORWARD SURGE CURRENT

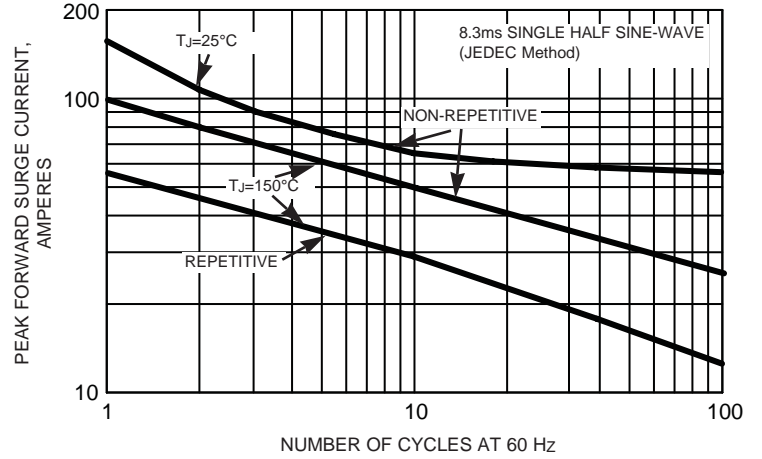


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

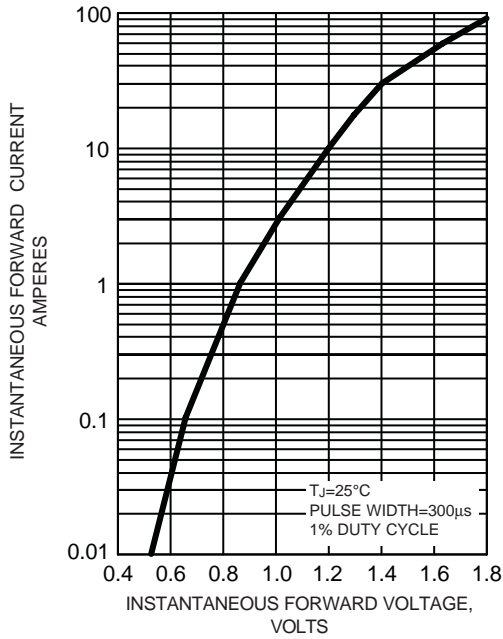


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

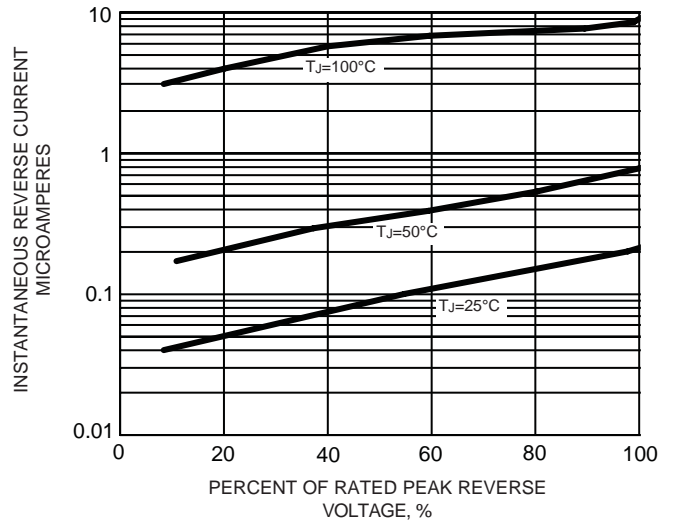


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

