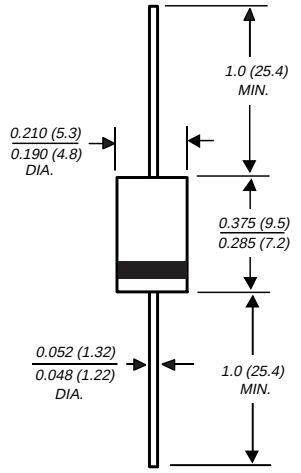
GI910 THRU GI917

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	V_{RRM}	50	100	200	400	600	800	Volts
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	Volts
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	Volts
Maximum average forward rectified current 0.375" (9.5mm) lead length at T_A=90°C	$I_{(AV)}$	3.0						Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	100.0						Amps
Maximum instantaneous forward voltage at: 3.0A 9.4A, T_J=175°C	V_F	1.25 1.10						Volts
Maximum DC reverse current T_A=25°C at rated DC blocking voltage T_A=100°C	I_R	10.0 300.0						µA
Typical junction capacitance (NOTE 1)	C_J	28.0						pF
Maximum reverse recovery time (NOTE 2)	t_{rr}	750						ns
Maximum reverse recovery current	$I_{RM(REC)}$	2.0						Amps
Typical thermal resistance (NOTE 3)	$R_{\Theta JA}$ $R_{\Theta JL}$	22.0 8.0						°C/W
Operating junction and storage temperature range	T_J ,T_{STG}	-50 to +150						°C

NOTES:
(1) Measured at 1 MHz and applied reverse voltage of 4.0 Volts
(2) Reverse recovery test conditions: I_F=1.0A, V_R=30V, di/dt=50A/µs, and I_{rr}=10% I_{RM} for measurement of t_{rr}
(3) Thermal resistance from junction to ambient and from junction to lead at 0.375" (9.5mm) lead length, both leads equally heat sink

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FIG.1 - FORWARD CURRENT DERATING CURVE

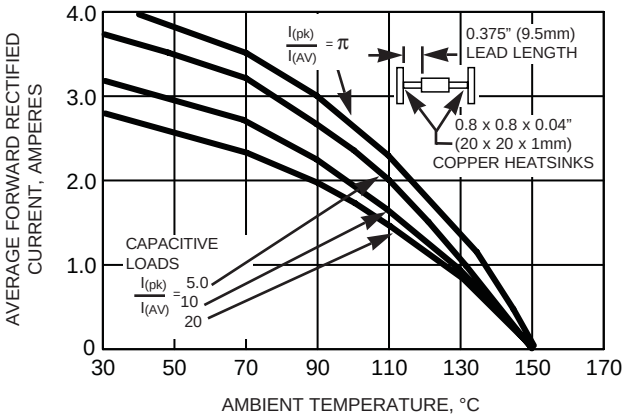


FIG. 2 - MAXIMUM PEAK FORWARD SURGE CURRENT

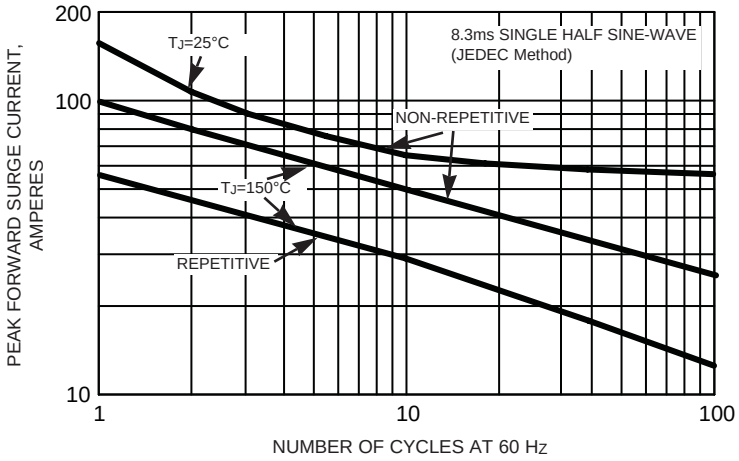


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

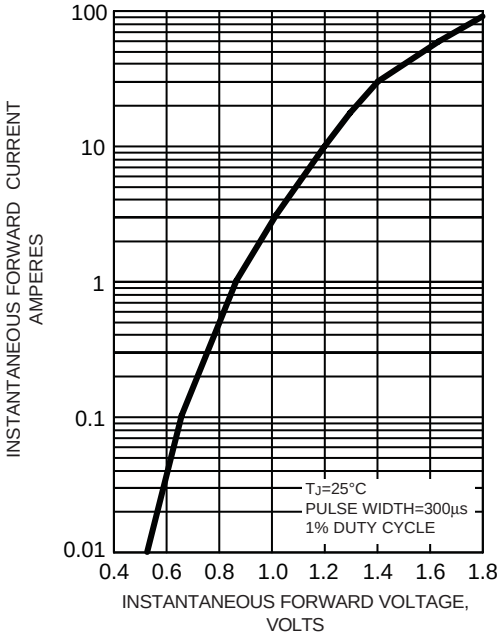


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

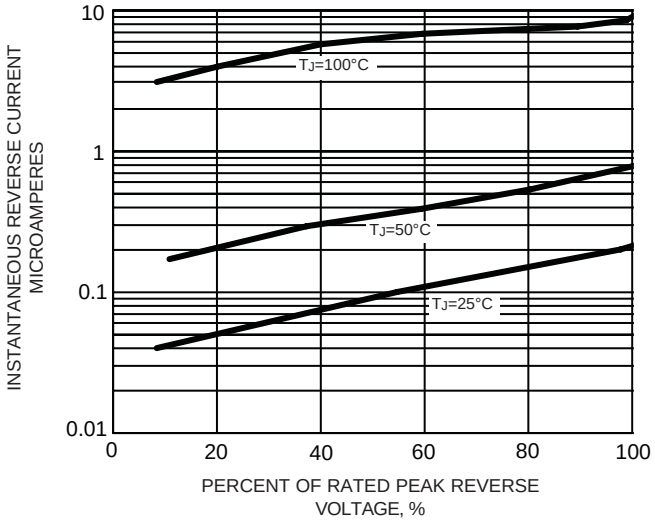
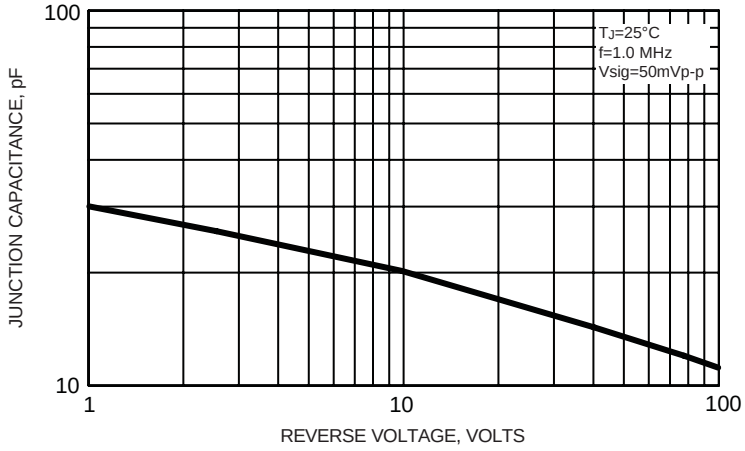


FIG. 5 - TYPICAL JUNCTION CAPACITANCE



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