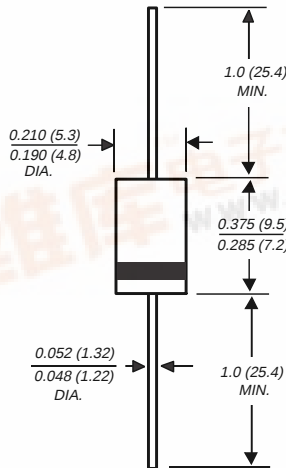


GI910 THRU GI917

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.

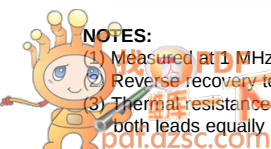
	SYMBOLS	GI910	GI911	GI912	GI914	GI916	GI917	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	Volts
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	Volts
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	Volts
Maximum average forward rectified current 0.375" (9.5mm) lead length at $T_A=90^\circ\text{C}$	$I_{(AV)}$	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, $T_J=175^\circ\text{C}$	V_F	1.25 1.10						Volts
Maximum DC reverse current at rated DC blocking voltage $T_A=25^\circ\text{C}$ $T_A=100^\circ\text{C}$	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						$^\circ\text{C/W}$
Operating junction and storage temperature range	T_J, T_{STG}	-50 to +150						$^\circ\text{C}$

NOTES:

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

(2) Reverse recovery test conditions: $I_F=1.0\text{A}$, $V_R=30\text{V}$, $di/dt=50\text{A}/\mu\text{s}$, 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



RATINGS AND CHARACTERISTIC CURVES GI910 THRU GI917

FIG.1 - FORWARD CURRENT DERATING CURVE

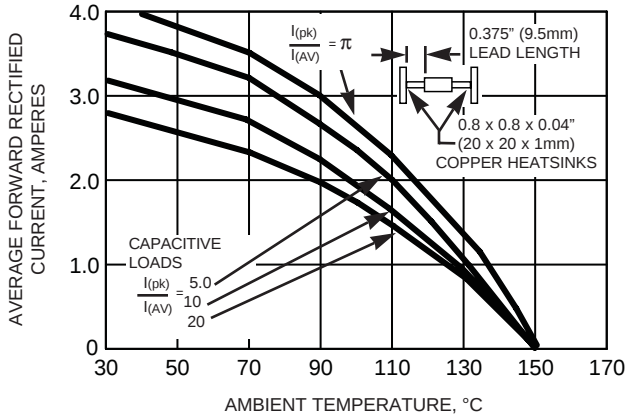


FIG. 2 - MAXIMUM PEAK FORWARD SURGE CURRENT

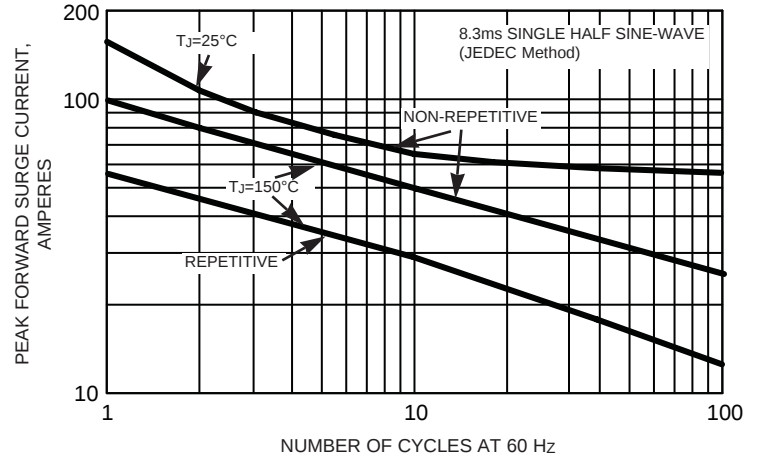


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

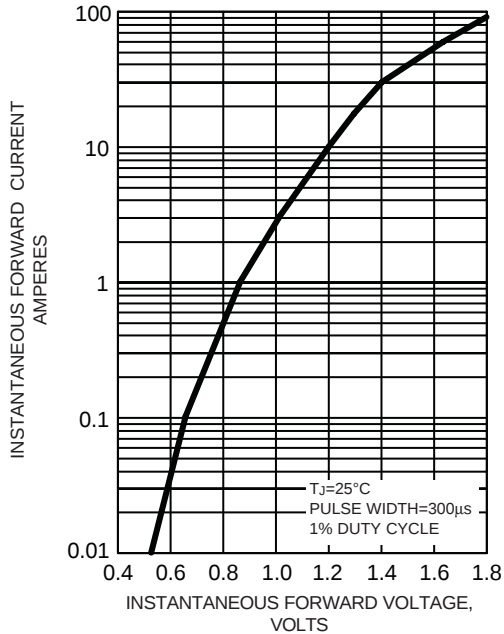


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

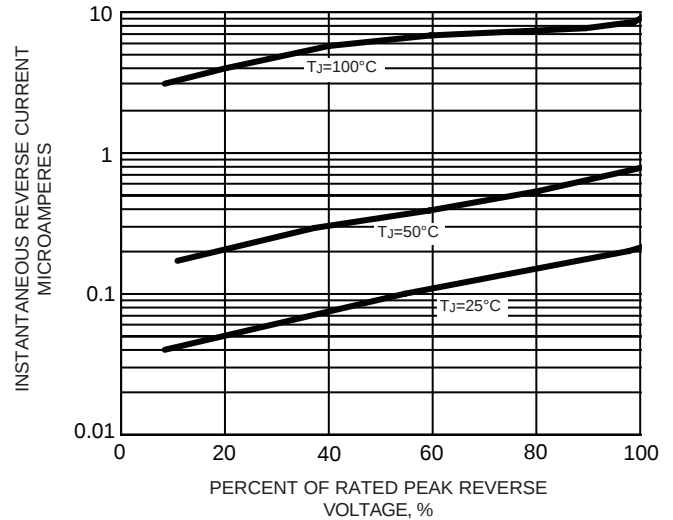


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

