

**GLASS PASSIVATED
 JUNCTION PLASTIC RECTIFIER**

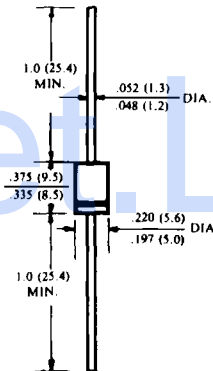
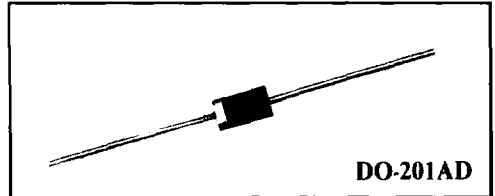
VOLTAGE RANGE-50 to 1000 Volts CURRENT-3.0 Amperes

FEATURES

- * High reliability
- * Low leakage
- * Low forward voltage drop
- * High current capability
- * Glass passivated junction

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL94V-0 rate flame retardant
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any
- * Weight: 1.18 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.
 Single phase, half wave, 60 Hz, resistive or inductive load.
 For capacitive load, derate current by 20%.

MAXIMUM RATINGS (At $T_A = 25^\circ\text{C}$ unless otherwise noted)

RATINGS	SYMBOL	1N5400G	1N5401G	1N5402G	1N5404G	1N5406G	1N5407G	1N5408G	UNITS	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts	
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	Volts	
Maximum DC Blocking Voltage	V_{OC}	50	100	200	400	600	800	1000	Volts	
Maximum Average Forward Rectified Current .375" (9.5mm) lead length at $T_L = 105^\circ\text{C}$	I_o	3.0								Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}					200				Amps
Typical Thermal Resistance	$R_{\theta JA}$					30				$^\circ\text{C/W}$
Typical Junction Capacitance (Note)	C_J					40				pF
Operating and Storage Temperature Range	T_J, T_{STG}					- 65 to + 175			$^\circ\text{C}$	

ELECTRICAL CHARACTERISTICS (At $T_A = 25^\circ\text{C}$ unless otherwise noted)

CHARACTERISTICS	SYMBOL	1N5400G	1N5401G	1N5402G	1N5404G	1N5406G	1N5407G	1N5408G	UNITS	
Maximum Instantaneous Forward Voltage at 3.0A DC	V_f					1.1				Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_r					5.0				μAmps
						300				μAmps
Maximum Full Load Reverse Current Average, Full Cycle .375" (9.5mm) lead length at $T_L = 75^\circ\text{C}$						30				μAmps

NOTE: Measured at 1 MHz and applied reverse voltage of 4.0 volts.

RATING AND CHARACTERISTIC CURVES(1N5400G THRU 1N5408G)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

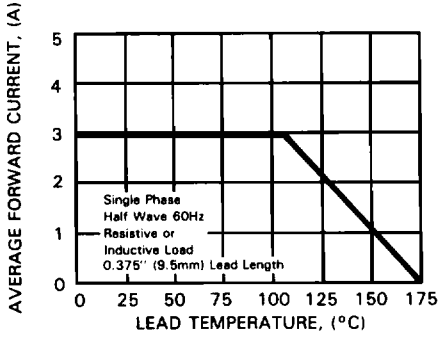


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

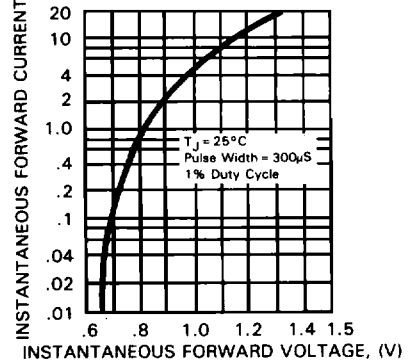


FIG. 3 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

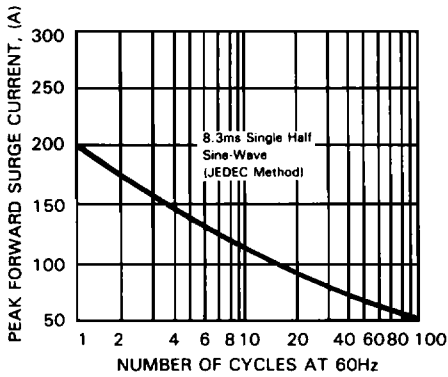


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

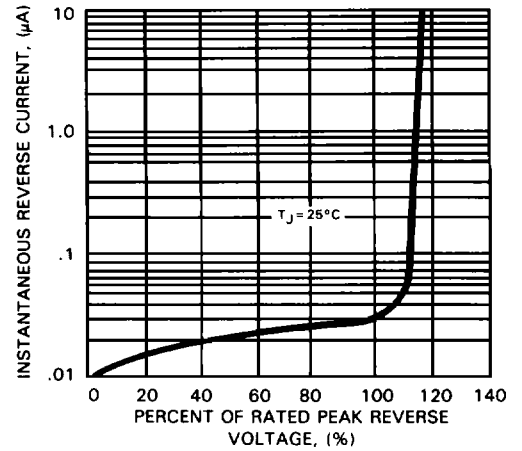


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

