

GLASS PASSIVATED RECTIFIER

1N5400G THRU 1N5408G

FEATURES

- Low reverse leakage
- Glass passivated chip junction
- Low forward voltage
- High forward surge current capacity
- High temperature soldering guaranteed: 260 /10 seconds, 0.375" (9.5mm) lead length

MECHANICAL DATA

- Case: transfer molded plastic
- Epoxy: UL94V 0 rate flame retardant
- Polarity: Color band denotes cathode end
- Lead: Plated axial lead, solderable per MIL-STD-202E method 208C
- Mounting position: any
- Weight: 0.042 ounce, 1.19 gram

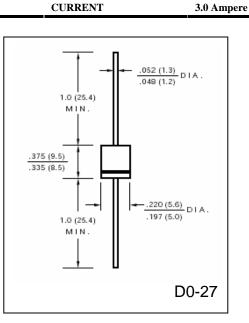
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- Ratings at 25^oC ambient temperature unless otherwise specified
- Single Phase, half wave, 60Hz, resistive or inductive load
- For capacitive load derate current by 20%

	SYMBOLS	1N 5400G	1N 5401G	1N 5402G	1N 5404G	1N 5406G	1N 5407G	1N 5508G	UNIT
Maximum Repetitive 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 _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current, 0.375" (9.5mm) lead length at $T_A = 75^{\circ}C$	I _(AV)	3.0							Amps
Peak Forward Surge Current									
8.3mS single half sine wave superimposed on	I _{FSM} 200								Amps
rated load (JEDEC method)									
Maximum Instantaneous Forward Voltage @ 3.0A	V _F	1.1							Volts
Maximum DC Reverse Current at Rated $T_A = 25 \ ^{\circ}C$	т	5.0 50							μA
DC Blocking Voltage per element $T_A = 125 {}^{\circ}C$	I _R								
Maximum Full Load Reverse Current, full cycle Average 0.375 " (9.5mm) lead length at T _L = 75 $^{\circ}$ C	I _{R(AV)}	30							μΑ
Typical Junction Capacitance (Measured at 1.0MHz and applied reverse voltage of 4.0V)	C _J	40							pF
Typical Thermal Resistance (Note 1)	$R_{\theta JA}$	30							^o C/W
Operating Junction Temperature Range	T _J	(-65 to +175)							°C
Storage Temperature Range	T _{STG}	(-65 to +175)							°C

Notes:

1. Thermal resistance from junction to ambient with 0.375" (9.5mm) lead length, PCB mounted



VOLTAGE RANGE

50 to 1000 Volts



RATINGS AND CHARACTERISTIC CURVES 1N5400G THRU 1N5408G

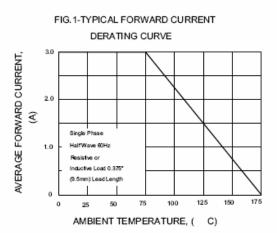
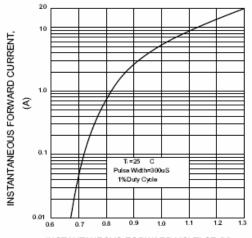
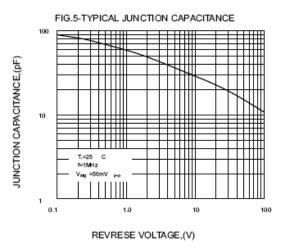
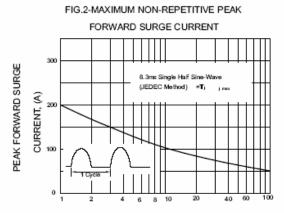


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



INSTANTANEOUS FORWARD VOLTAGE,(V)





NUMBER OF CYCLES AT 60 Hz

FIG.4-TYPICAL REVERSE

