1N5400G THRU 1N5408G

SILICON RECTIFIER

FEATURES

- Glass Passivated chip junction
- High current capability
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O ctilizing Flame Retardant Epoxy Molding Compound.
- Exceeds environmental standards of MIL-S-19500/228
- Low leakage.

MECHANICAL DATA

Case: Molded plastic, DO-201AD

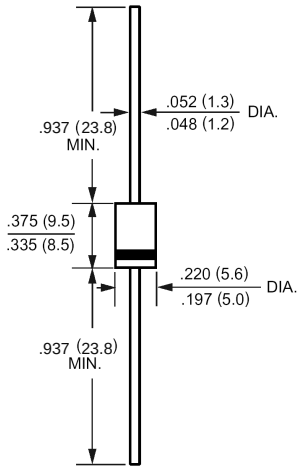
Terminals: Plated axial leads, solderable per MIL-STD-202, method 208 guaranteed

Polarity: Color band denotes cathode end

Mounting position: Any

Weight: 0.04ounce, 1.1gram

DO-201AD(DO-27)



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Ratings at 25℃ ambient temperature unless otherwise specified.

Single phase, half wave, 60H_Z, resistive or inductive load.

For capacitive load, derate current by 20%.

	Symbols	*1N5400G*	*1N5401G*	*1N5402G*	*1N5403G*	*1N5404G*	*1N5405G*	*1N5406G*	*1N5407G*	*1N5408G*	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	300	400	500	600	800	1000	**Volts**
Maximum RMS Voltage	V_{RMS}	35	70	140	210	280	350	420	560	700	**Volts**
Maximum DC Blocking Voltage	V_{DC}	50	100	200	300	400	500	600	800	1000	**Volts**
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length at T_A=75℃	$I_{(AV)}$	3.0									**Amp**
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	125									**Amp**
Maximum Forward Voltage at 3.0A DC and 25℃	V_F	1.1									**Volts**
Maximum Reverse Current at T_A=25℃	I_R	5.0									**uAmp**
at Rated DC Blocking Voltage T_A=100℃		1000									
Typical Junction Capacitance (Note 1)	C_J	50									**pF**
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	18									**℃/W**
Operating Junction Temperature Range	T_J	-55 to +150									**℃**
Storage Temperature Range	Tstg	-55 to +150									**℃**

NOTES:

1- Measured at 1 MH_Z and applied reverse voltage of 4.0 VDC.

2- Thermal Resistance Junction to Ambient and form junction to lead at 0.375"(9.5mm) lead length P.C.B. Mounted with 0.8x0.8" (20x20mm) copper pads.

version: 02
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RATINGS AND CHARACTERISTIC CURVES

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

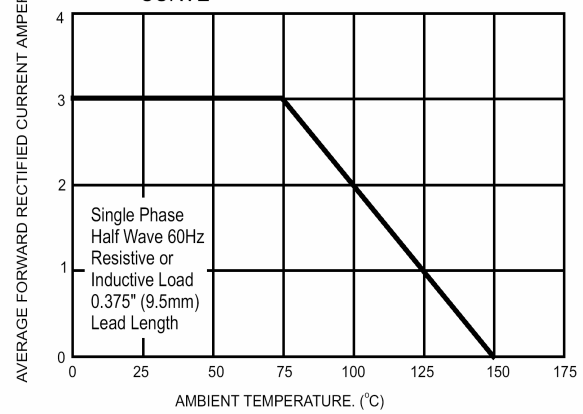


FIG.2 MA X I MUMNON-REPEITIVESURGECURRENT

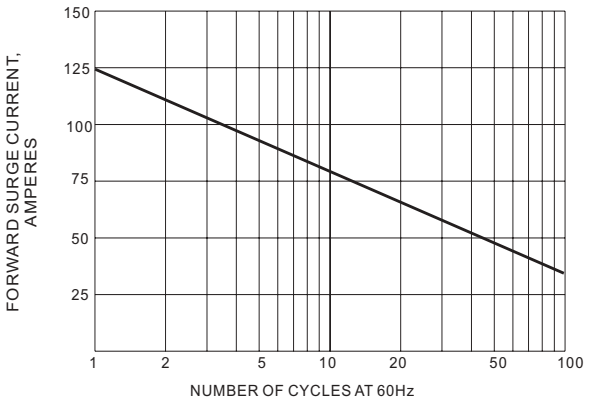


FIG.3- TYPICAL FORWARD CHARACTERISTICS

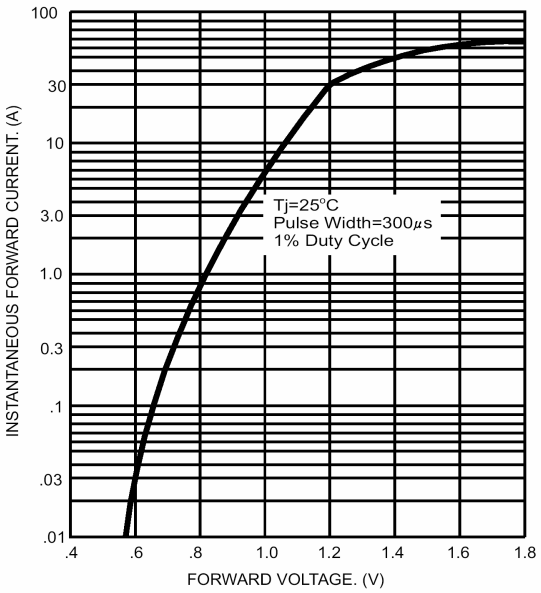


FIG.4- TYPICAL JUNCTION CAPACITANCE

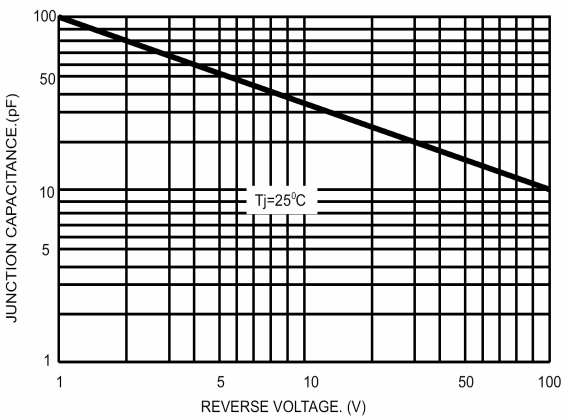
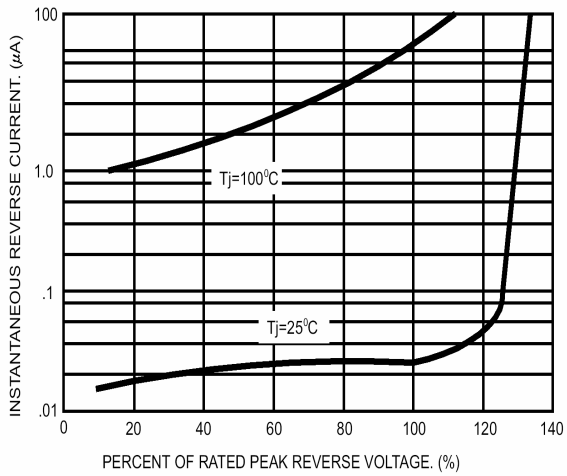


FIG.5- TYPICAL REVERSE CHARACTERISTICS



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