

1N5400 THRU 1N5408

3.0AMPS . SILICON RECTIFIERS

FEATURE

- . High current capability
- . Low forward voltage drop
- . Low power loss, high efficiency
- . High surge capability
- . High temperature soldering guaranteed: 260°C /10sec/ 0.375" lead length at 5 lbs tension

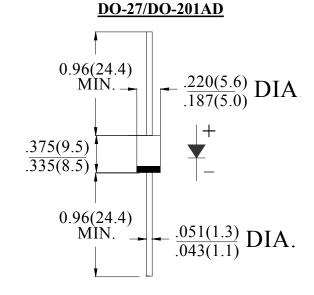
MECHANICAL DATA

. Terminal: Plated axial leads solderable per MIL-STD 202E, method 208C

. Case: Molded with UL-94 Class V-0 recognized Flame Retardant Epoxy

. Polarity: color band denotes cathode

. Mounting position: any



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

Type Number	SYM	1N	1N	1N	1N	1N	1N	1N	units
	BOL	5400	5401	5402	5404	5406	5407	5408	
Maximum Recurrent Peak Reverse Voltage	$V_{ m RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	$V_{ m RMS}$	35	70	140	280	420	560	700	V
Maximum DC blocking Voltage	$V_{ m DC}$	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current .375"(9.5mm) lead length at T _A =55°C	$I_{\mathrm{F(AV)}}$	3.0							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	$I_{ m FSM}$	90.0							A
Maximum Forward Voltage at 3.0A DC	V_{F}	1.0							V
Maximum DC Reverse Current $@T_A=25^{\circ}C$ at rated DC blocking voltage $@T_A=100^{\circ}C$	$I_{ m R}$	5.0 100.0							μA
Typical Junction Capacitance (Note 1)	$C_{ m J}$	$C_{\mathbf{J}}$ 50							pF
Typical Thermal Resistance (Note 2)	$R_{(JA)}$	50							°C/W
Storage Temperature	T _{STG}	-55 to +150							°C
Operation JunctionTemperature	$T_{ m J}$	-55 to +150							°C

Note:

- 1. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
- 2. Thermal Resistance from Junction to Ambient at 0.375" (9.5mm) lead length, vertical P.C.Board Mounted.

RATING AND CHARACTERISTIC CURVES (1N5400 THRU 1N5408)

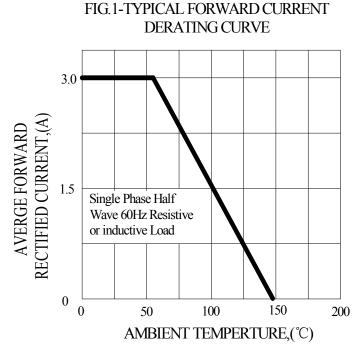


FIG.2-TYPICAL INSTANTANEOUS FORWARD **CHARACTERISTICS**

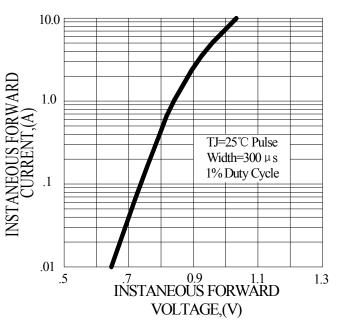


FIG.3-MAXIMUN NON-REPETITIVE FORWARD SURGE CURRENT

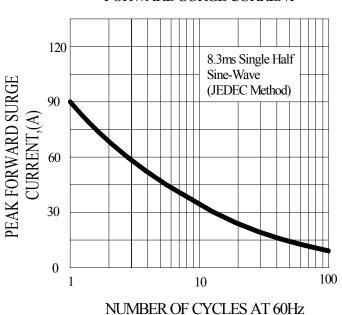
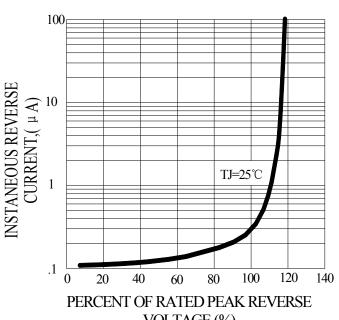


FIG.4-TYPICAL REVERSE **CHARACTERISTICS**



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