1N5400 THRU 1N5408

GENERAL PURPOSE PLASTIC SILICON RECTIFIER

康 比 電 子
HORNBY ELECTRONIC

REVERSE VOLTAGE: **50 to 1000 VOLTS**

FORWARD CURRENT: **3.0 AMPERES**

FEATURES

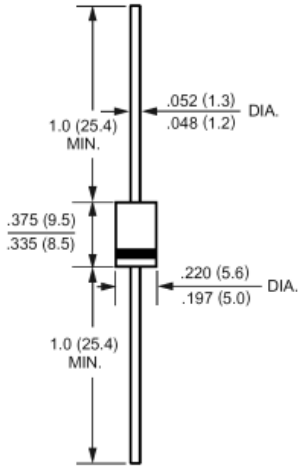
· High current capability

· 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.

DO-201AD



Dimensions in inches and (millimeters)

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

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	*1N5400*	*1N5401*	*1N5402*	*1N5403*	*1N5404*	*1N5405*	*1N5406*	*1N5407*	*1N5408*	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}	200									**Amp**
Maximum Forward Voltage at 3.0A DC and 25℃	V_F	1.1									**Volts**
Maximum Reverse Current at T_A=25℃ / **at Rated DC Blocking Voltage T_A=100℃**	I_R	5.0 / 50									**uAmp**
Typical Junction Capacitance (Note 1)	C_J	40									**pF**
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	30									**℃/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.

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RATINGS AND CHARACTERISTIC CURVES

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

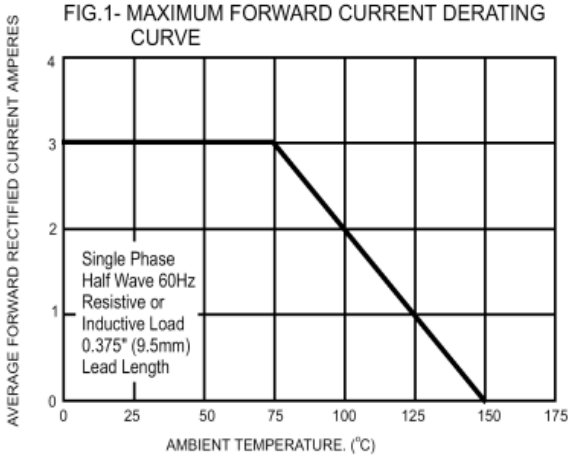

FIG.2- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

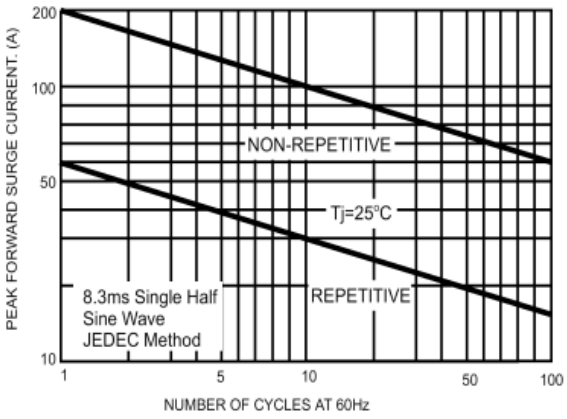

FIG.3- TYPICAL FORWARD CHARACTERISTICS

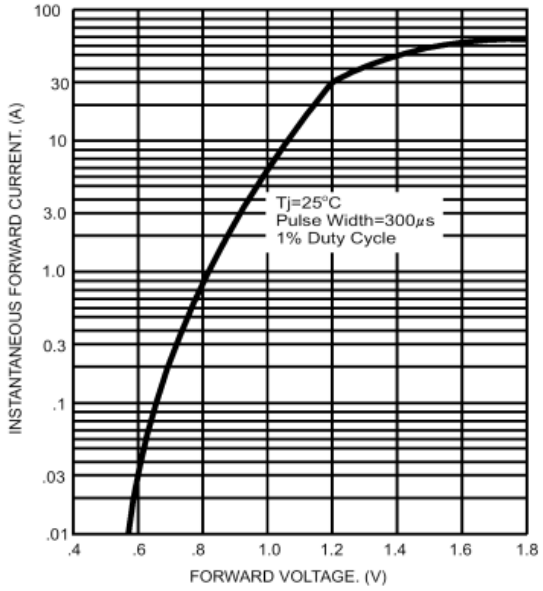

FIG.4- TYPICAL JUNCTION CAPACITANCE

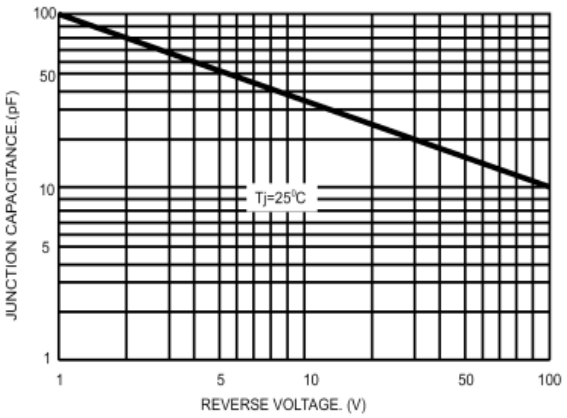

FIG.5- TYPICAL REVERSE CHARACTERISTICS