



1N5400 THRU 1N5408
GLASS PASSIVATED SILICON RECTIFIER

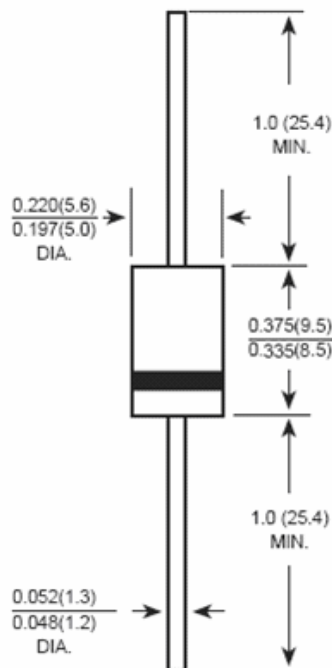
Features:

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed:
250°C/10s, 0.375"(9.5mm) lead length, 5lbs.(2.3kg) tension
- This is a Pb – Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Mechanical data:

- Case: JEDEC DO-201AD molded plastic body
- Terminals: Plated axial leads, solderable per MIL-STD 750 ,Method 2026
- Polarity: Color band denotes cathode end
- Mounting position: Any
- Weight: 0.04 ounce, 1.10 grams

Mechanical Dimensions: In Inches / mm



DO-201AD

Marking Diagram:

Where XXXXX is YYWWL



1N5400 = Part Name
SSG = SSG
YY = Year
WW = Week
L = Lot Number

Cautions: Molding resin
Epoxy resin UL:94V-0

Ordering Information

Device	Package	Shipping
1N5400-1N5408	DO-201AD (Pb-Free)	1250pcs / tape

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification.



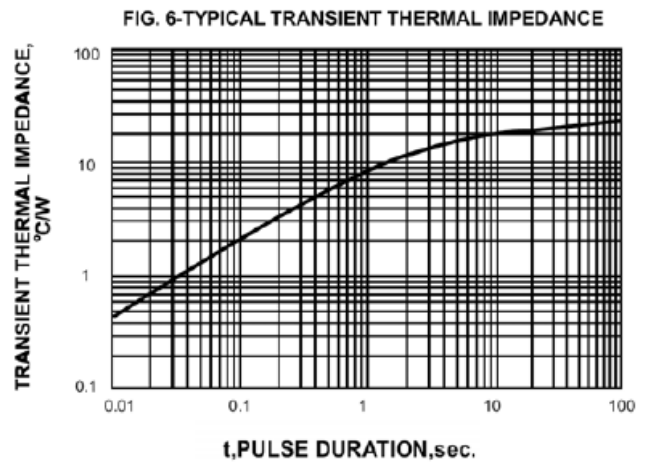
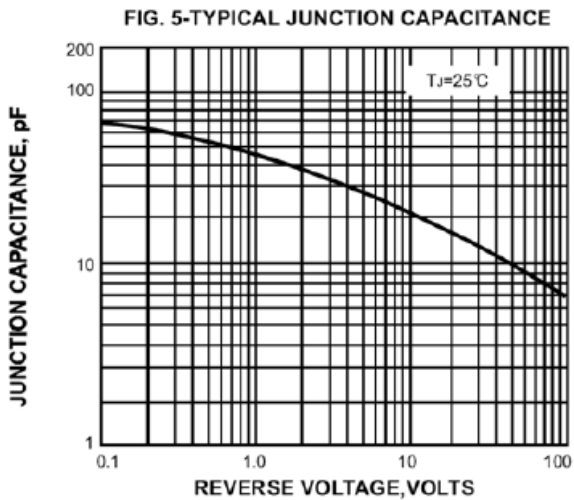
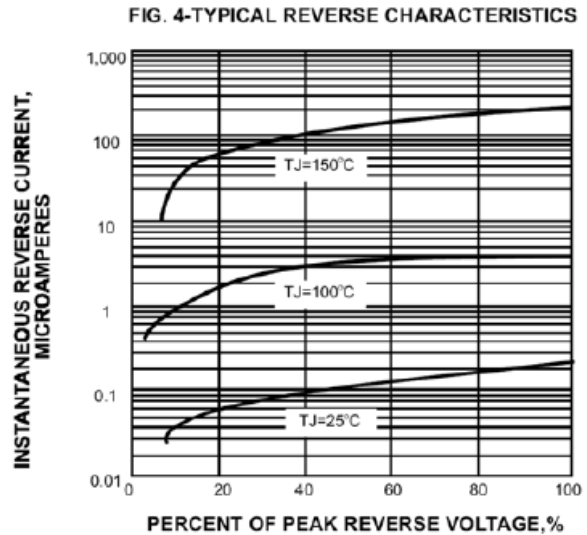
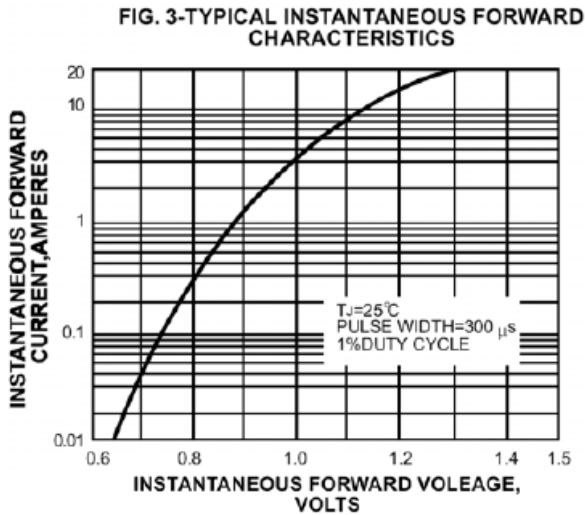
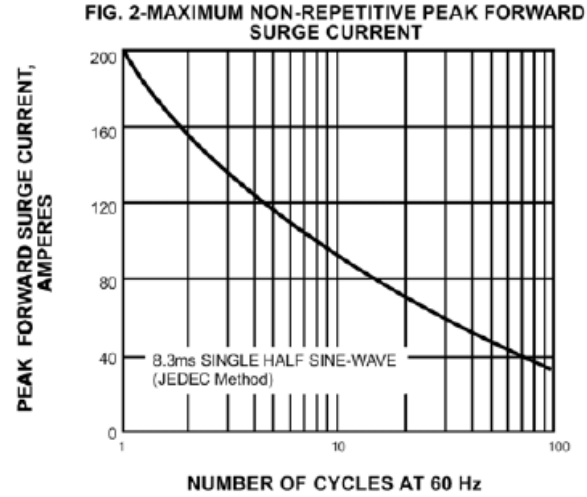
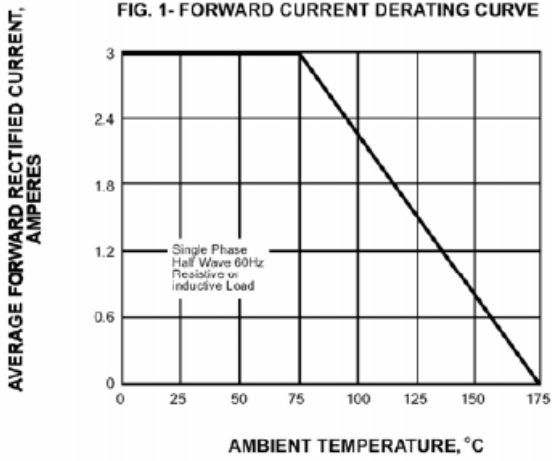
Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified

Single Phase half wave 60Hz, resistive or inductive load. For capacitive load current derate by 20%.

Characteristic	Symbol	1N 5400	1N 5401	1N 5402	1N 5403	1N 5404	1N 5405	1N 5406	1N 5407	1N 5408	Units
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	300	400	500	600	800	1000	V
Maximum RMS voltage	V_{RMS}	35	70	140	210	280	350	420	560	700	
Maximum DC Blocking Voltage	V_{DC}	50	100	200	300	400	500	600	800	1000	
Maximum average forward rectified current 0.375"(9.5mm) lead length at $T_A = 75^\circ C$	$I_{(AV)}$	3.0									V
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	200									A
Maximum instantaneous forward voltage at 3.0A	V_F	1.2									V
Maximum DC reverse current at rated DC blocking voltage	I_R	$T_A = 25^\circ C$ 5.0									μA
		$T_A = 100^\circ C$ 100									
Typical junction capacitance (NOTE 1)	C_J	30.0									pF
Typical thermal resistance (NOTE 2)	$R_{\theta JA}$	20.0									$^\circ C / W$
Operating junction and storage temperature range	T_J, T_{STG}	-65 to +175									$^\circ C$
Case Style		DO-201AD									

- Note:** 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.
2. Thermal resistance form junction to ambient at 0.375"(9.5mm) lead length, P.C.B. mounted



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