1N4001S THRU 1N4007S

PLASTIC SILICON RECTIFIERS Reverse Voltage – 50 to 1000 V Forward Current – 1 A

Features

- Low forward voltage drop
- Low cost
- Low leakage
- High current capability

Mechanical Data

- Case: A-405, Molded plastic.
- **Terminals:** Axial leads, solderable per MIL-STD -202, method 208 guaranteed
- Polarity: Color band denotes cathode
- Mounting Position: Any

Absolute Maximum Ratings and Characteristics

Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

1 of capacitive load, denote current by 20.00 .									
Parameter	Symbols	1N4001S	1N4002S	1N4003S	1N4004S	1N4005S	1N4006S	1N4007S	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current 0.375"(9.5 mm) lead lengths at $T_A = 75 \degree C$	I _{F(AV)}	1							
Peak Forward Surge Current 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	30							A
Maximum Forward Voltage at 1 A	VF	1.1							V
Maximum DC Reverse Currentat $T_A = 25 ^{\circ}C$ at Rated DC Blocking Voltageat $T_A = 100 ^{\circ}C$	I _R	5 50							μA
Typical Junction Capacitance ¹⁾	CJ	15							pF
Typical Thermal Resistance ²⁾	$R_{ ext{ heta}JA}$	50							°C/W
Operating and Storage Temperature Range	T _J ,T _{Stg}	- 55 to + 150							°C

¹⁾ Measured at 1 MHz and applied reverse voltage of 4V D.C.

²⁾ Thermal resistance from junction to ambient at 0.375" (9.5 mm) lead length.

SEMTECH ELECTRONICS LTD.

Subsidiary of Sino-Tech International (BVI) Limited





A-405

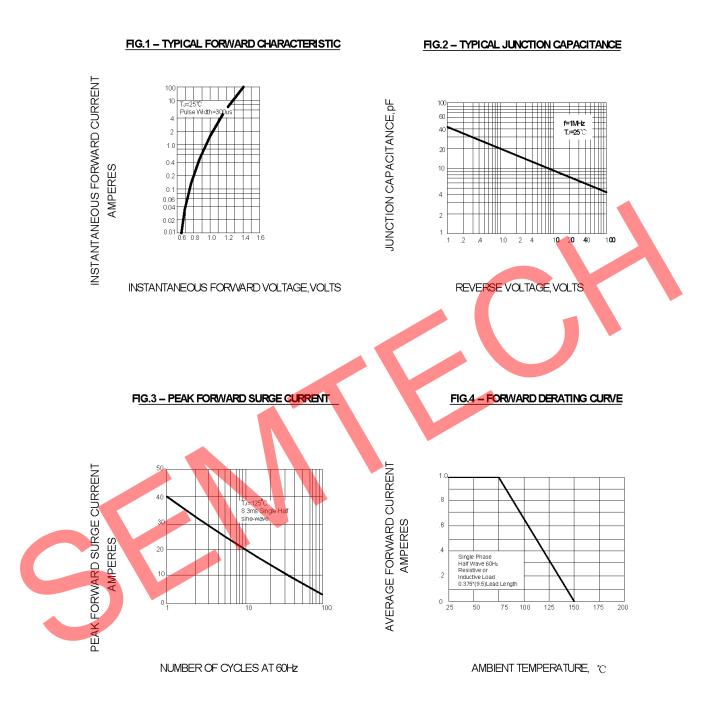
2.75 2.00 Min

Min.

Dimensions in mm

Dated : 17/01/2008 B

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