查询1N4002S供应商

1N4001S THRU 1N4007S

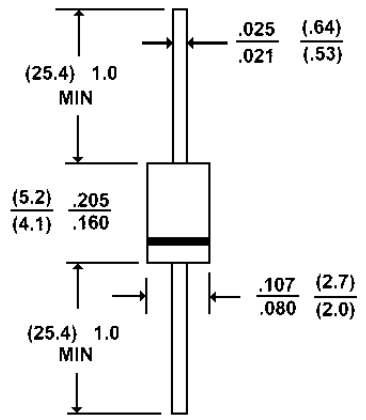
PLASTIC SILICON RECTIFIER

VOLTAGE - 50 to 1000 Volts CURRENT - 1.0 Ampere

FEATURES

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability
- £r 0.6mm leads
- Exceeds environmental standards of MIL-S-19500/228

A-405



Dimensions in inches and (millimeters)

MECHANICAL DATA

Case: Molded plastic , A-405

Epoxy: UL 94V-O rate flame retardant

Lead: Axial leads, solderable per MIL-STD-202, method 208 guaranteed

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.008 ounce, 0.22 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 ¢J ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%.

	1N4001S	1N4002S	1N4003S	1N4004S	1N4005S	1N4006S	1N4007S	UNITS
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	35	75	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @T_A=75 ¢J	1.0							A
Peak Forward Surge Current 8.3ms single half sine-wave I_{FSM} superimposed on rated load	30							A
Maximum Forward Voltage at 1.0A DC	1.1							V
Maximum DC Reverse Current @T_A=25 ¢J	5.0							£g A
At Rated DC Blocking Voltage @T_A=100 ¢J	500							£g A
Typical Junction capacitance (Note 1)	15							$_P$F
Typical Thermal Resistance (Note 2) R £KJA	50							¢J/W
Typical Thermal resistance (NOTE 2) R £K JL	25							¢J/W
Operating Temperature Range T_J	-55 to +150							¢J
Storage Temperature Range T_A	-55 to +150							¢J

NOTES:

1. Measured at 1 MHz and applied reverse voltage of 4.0 VDC
2. Thermal resistance Junction to Ambient and from junction to lead at 0.375"(9.5mm) lead length P.C.B mounted

RATING AND CHARACTERISTIC CURVES

1N4001S THRU 1N4007S

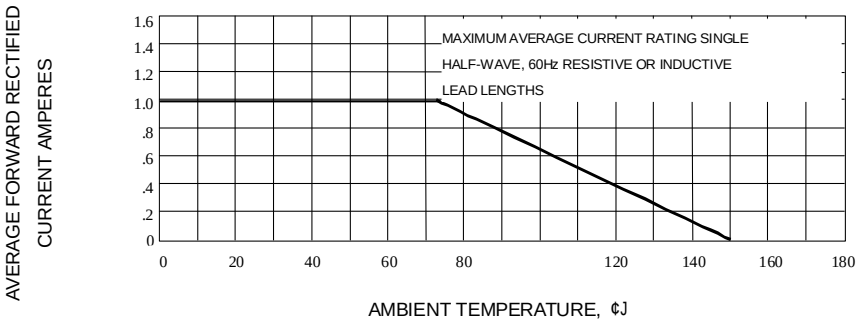


Fig. 1-TYPICAL FORWARD CURRENT DERATING CURVE

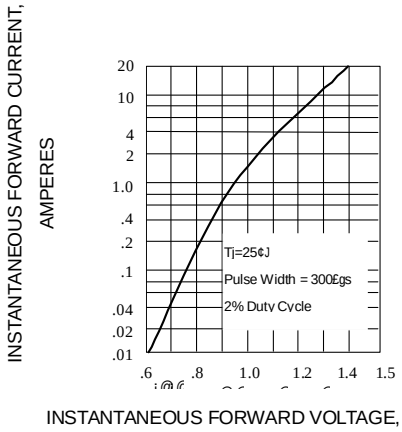


Fig. 2-TYPICAL FORWARD CHARACTERISTICS

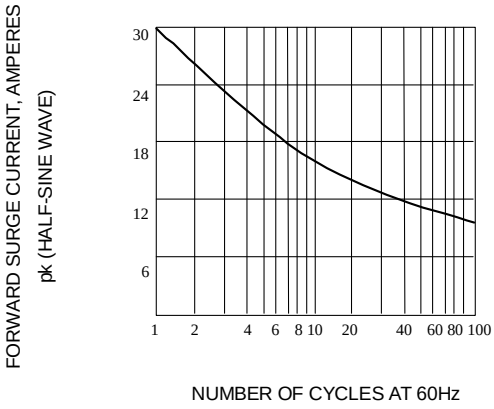


Fig. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

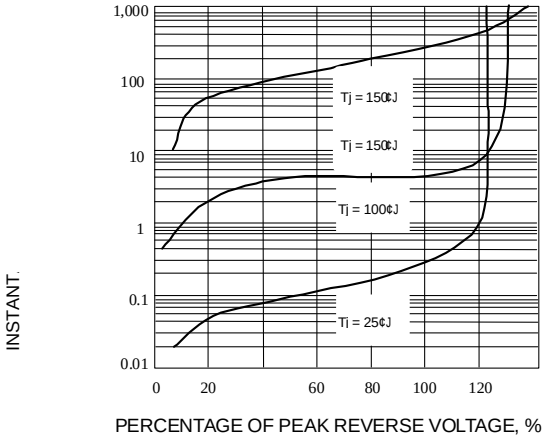


Fig. 4-TYPICAL REVERSE CHARACTERISTICS

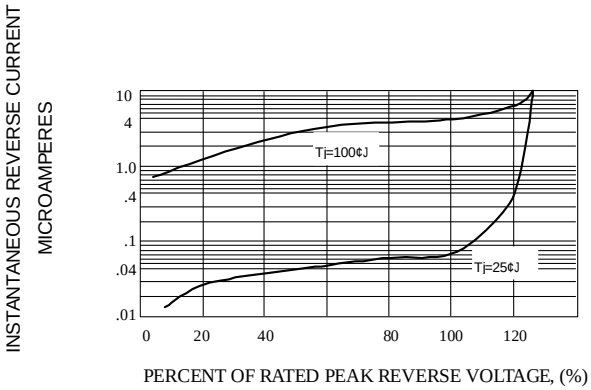


Fig. 5-TYPICAL REVERSE CHARACTERISTICS