

1N4001S THRU 1N4007S

GENERAL PURPOSE SILICON RECTIFIER

Reverse Voltage - 50 to 1000 Volts Forward Current - 1.0 Ampere

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/10 seconds,0.375"(9.5mm) lead length,

5 lbs. (2.3kg) tension

Mechanical Data

◆Case: A-405 molded plastic body

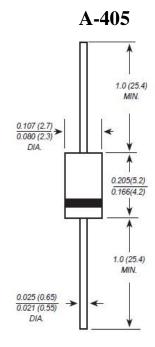
◆Terminals: Plated axial leads, solderable per

MIL-STD-750, Method 2026

◆Polarity: Color band denotes cathode end

◆ Mounting position: Any

♦ Weight: 0.22 grams



Dimensions in inches and (millimeters)

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, derate current by 20%

PARAMETER	SYMBOL	1N 4001S	1N 4002S	1N 4003S	1N 4004S	1N 4005S	1N 4006S	1N 4007S	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	VOLTS
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	VOLTS
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	VOLTS
Maximum average forward rectified current 0.375"(9.5mm) lead length at $T_A=55$ $^{\circ}$ C	I(AV)	1.0							Amp
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	30.0							Amps
Maximum instantaneous forward voltage at 1.0A	V_{F}	1.1							VOLTS
Maximum DC Reverse Current $T_A=25^{\circ}C$	т	5.0							4
at Rated DC blocking voltage $T_A = 100$ °C	$I_{ m R}$				50.0				μΑ
Typical Junction Capacitance (Note 1)	C_{J}	15.0							pF
Typical Thermal Resistance (Note 2)	R _θ ја	50.0							°C/W
Operating junction and storage temperature range	T _J ,Tstg	-55 to +150							$^{\circ}\!\mathbb{C}$

Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2. Thermal resistance from junction to ambient at 0.375"(9.5mm)lead length, P.C.B. mounted

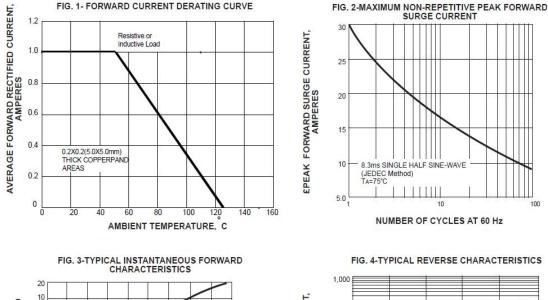


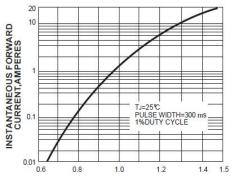
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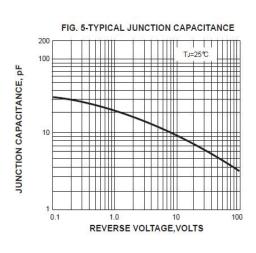
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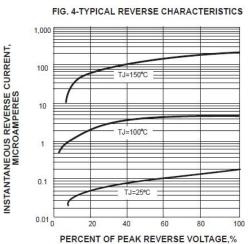
RATING AND CHARACTERISTIC CURVES 1N4001S THRU 1N4007S

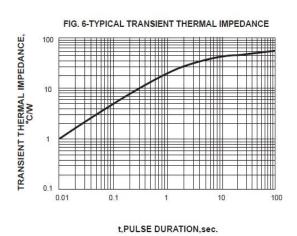












Note: Specifications are subject to change without notice. For more detail and update, please visit our website.