1N4001S THRU 1N4007S

GENERAL PURPOSE PLASTIC SILICON RECTIFIER



REVERSE VOLTAGE: 50 to 1000 VOLTS FORWARD CURRENT: 1.0 AMPERE

FEATURES

· Low forward voltage drop

· High current capability

· High reliability

· High forward surge current capability

MECHANICAL DATA

Case: Molded plastic, A-405

Epoxy: UL 94V-O rate flame retardant

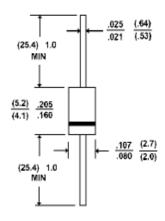
Lead: Axial leads, solderable per MIL-STD-202,

method 208 guaranteed

Polarity: Color band denotes cathode end

Mounting position: Any Weight: 0.008ounce, 0.22gram

A-405



Dimensions in inches and (millimeters)

Dimensions in inches and (millimeters)

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	1N4001S	1N4002S	1N4003S	1N4004S	1N4005S	1N4006S	1N4007S	Units
Maximum Recurrent 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	т	1.0							Amp
.375"(9.5mm) Lead Length at T_A =75	$I_{(AV)}$								
Peak Forward Surge Current,									
8.3ms single half-sine-wave	I_{FSM} 30							Amp	
superimposed on rated load (JEDEC method)									
Maximum Forward Voltage	V_{F}	1.1							Volts
at 1.0A DC and 25	V F								
Maximum Reverse Current at T _A =25	т.	5.0 500							uAmp
at Rated DC Blocking Voltage T _A =100	I_R								
Typical Junction Capacitance (Note 1)	C_{J}	15							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	50							/W
Operating Junction Temperature Range	T_{J}	-55 to +150							
Storage Temperature Range	Tstg			-	55 to +15	0			

NOTES:

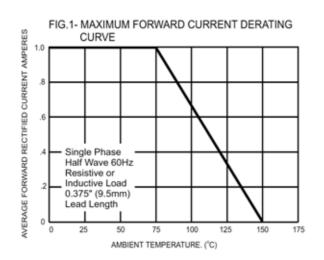
- 1- Measured at 1 MH_Z and applied reverse voltage of 4.0 VDC.
- 2- Thermal Resistance Junction to Ambient 0.375"(9.5mm) lead length P.C.B. Mounted.

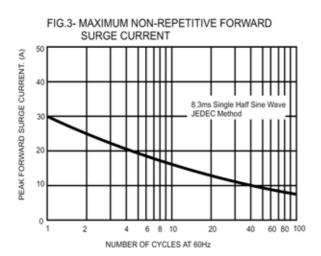
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RATINGS AND CHARACTERISTIC CURVES





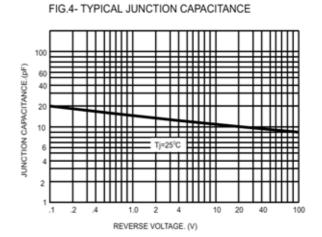


FIG.5- TYPICAL REVERSE CHARACTERISTICS

