

**Kingtronics**®**1N4001S THRU  
1N4007S****GENERAL PURPOSE SILICON RECTIFIER****REVERSE VOLATAGE 50 to 1000 Volts    FORWARD CURRENT 1.0 Ampere****FEATURES**

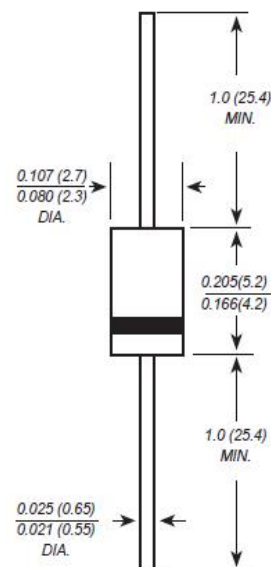
The plastic package carries Underwriters Laboratory  
Flammability Classification 94V-0  
Construction utilizes void-free molded plastic technique  
Low reverse leakage  
High forward surge current capability  
High temperature soldering guaranteed:  
250 °C/10 seconds, 0.375"(9.5mm) lead length,  
5 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: 0.22grams

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

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

**Dimensions in inches and (millimeters)**

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 $T_A=55^\circ\text{C}$	$I_{(AV)}$	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 $T_A= 25^\circ\text{C}$ at Rated DC blocking voltage $T_A = 100^\circ\text{C}$	$I_R$	5.0 50.0							$\mu\text{A}$
Typical Junction Capacitance (Note 1)	$C_J$	15.0							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	50.0							$^\circ\text{C/W}$
Operating junction and storage temperature range	$T_J, T_{STG}$	-55 to +150							$^\circ\text{C}$

1- Measured at 1 MHz and applied reverse voltage of 4.0 VDC.

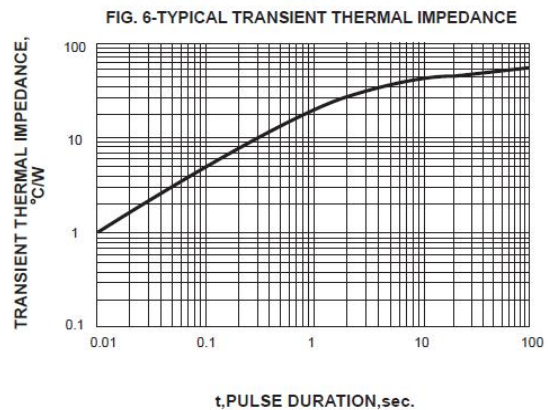
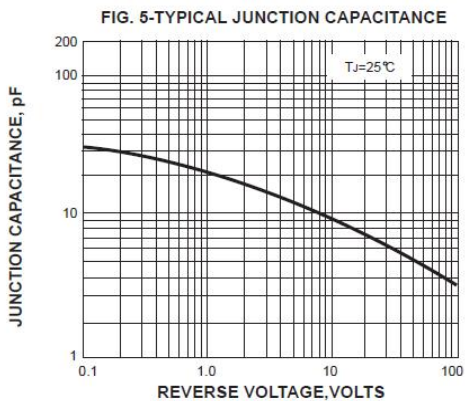
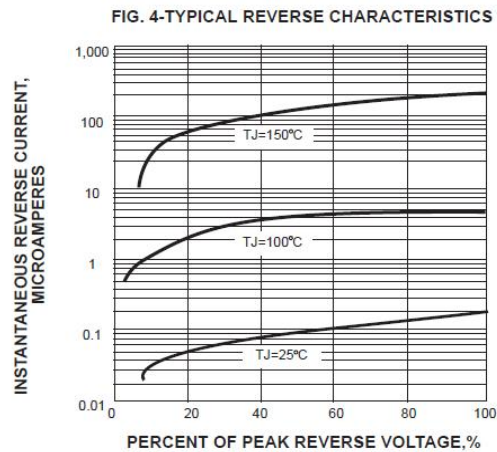
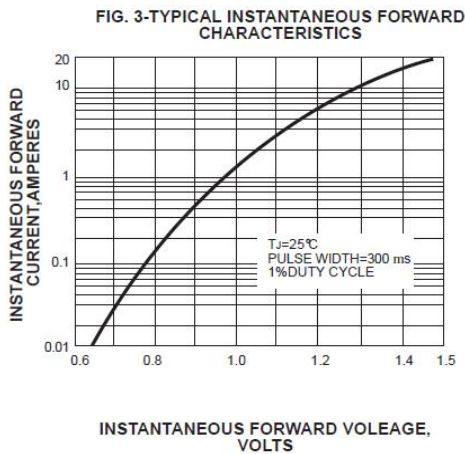
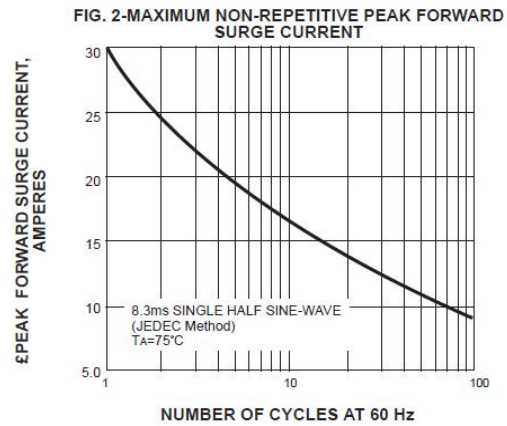
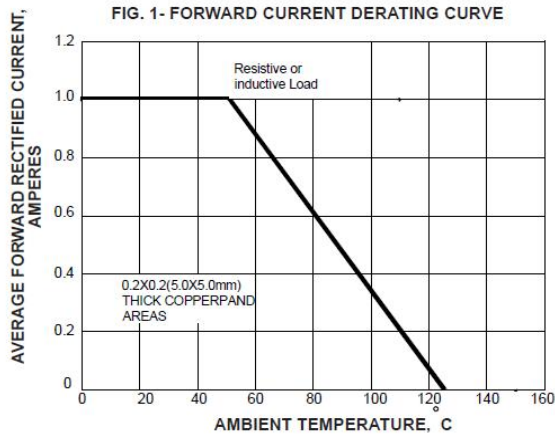
2- Thermal resistance from junction to ambient at 0.375"(9.5mm)lead length,P.C.B. mounted.

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# Kingtronics®

# 1N4001S THRU 1N4007S

## RATINGS AND CHARACTERISTIC CURVES



Note: Specifications are subject to change without notice.

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