

1N4001 - 1N4007

1.0A SILICON RECTIFIER

Features

- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability

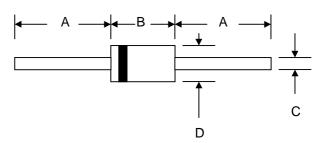
Mechanical Data

Case: Molded Plastic

 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

Polarity: Cathode BandWeight: 0.35 grams (approx.)

Mounting Position: AnyMarking: Type Number



DO-41					
Dim	Min	Max			
Α	25.4	_			
В	4.06	5.21			
С	0.71	0.864			
D	2.00	2.72			
All Dimensions in mm					

Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	1N 4001	1N 4002	1N 4003	1N 4004	1N 4005	1N 4006	1N 4007	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	50	100	200	400	600	800	1000	٧
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1) @T _A = 75°C	lo				1.0				Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	30			А				
Forward Voltage @I _F = 1.0A	VFM	1.0				V			
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 100°C	lгм	5.0 50			μΑ				
Typical Junction Capacitance (Note 2)	Cj				15				pF
Typical Thermal Resistance Junction to Ambient (Note 1)	$R_{ heta}JA$				50				K/W
Operating Temperature Range	Tj	-65 to +125			°C				
Storage Temperature Range	Тѕтс	-65 to +150			°C				

*Glass passivated forms are available upon request

Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case

2. Measured at 1.0 MHz and Applied Reverse Voltage of 4.0V D.C.

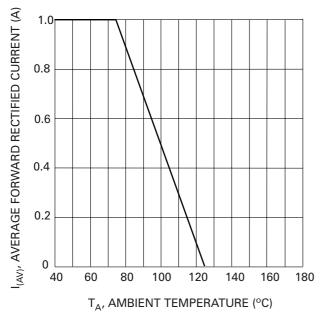
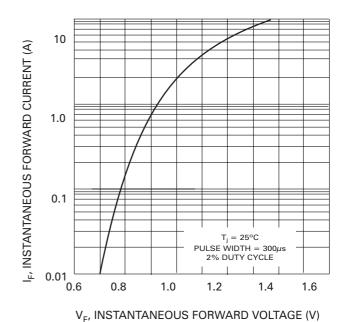


Fig. 1 Forward Current Derating Curve



V_F, INSTANTANEOUS FORWARD VOLIAGE (V)

Fig. 2 Typical Forward Characteristics

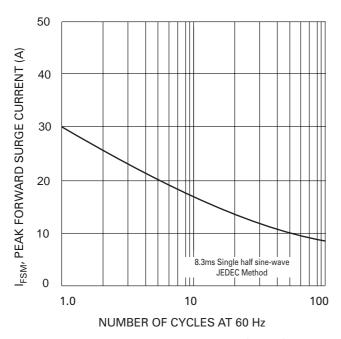


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

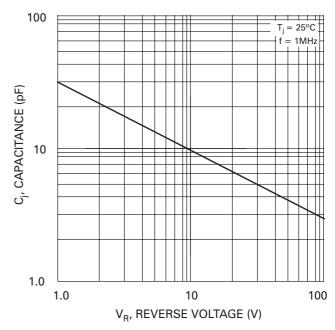


Fig. 4 Typical Junction Capacitance

ORDERING INFORMATION

Product No.◆	Package Type	Shipping Quantity			
1N4001-T3	DO-41	5000/Tape & Reel			
1N4001-TB	DO-41	5000/Tape & Box			
1N4001	DO-41	1000 Units/Box			
1N4002-T3	DO-41	5000/Tape & Reel			
1N4002-TB	DO-41	5000/Tape & Box			
1N4002	DO-41	1000 Units/Box			
1N4003-T3	DO-41	5000/Tape & Reel			
1N4003-TB	DO-41	5000/Tape & Box			
1N4003	DO-41	1000 Units/Box			
1N4004-T3	DO-41	5000/Tape & Reel			
1N4004-TB	DO-41	5000/Tape & Box			
1N4004	DO-41	1000 Units/Box			
1N4005-T3	DO-41	5000/Tape & Reel			
1N4005-TB	DO-41	5000/Tape & Box			
1N4005	DO-41	1000 Units/Box			
1N4006-T3	DO-41	5000/Tape & Reel			
1N4006-TB	DO-41	5000/Tape & Box			
1N4006	DO-41	1000 Units/Box			
1N4007-T3	DO-41	5000/Tape & Reel			
1N4007-TB	DO-41	5000/Tape & Box			
1N4007	DO-41	1000 Units/Box			

Products listed in **bold** are WTE **Preferred** devices.

*T3 suffix refers to a 13" reel. TB suffix refers to Ammo Pack.

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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