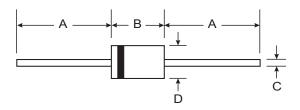


1N4001/L - 1N4007/L

1.0A RECTIFIER

Features

- Diffused Junction
- High Current Capability and Low Forward Voltage Drop
- Surge Overload Rating to 30A Peak
- Low Reverse Leakage Current
- Plastic Material: UL Flammability Classification Rating 94V-0



Mechanical Data

Case: Molded Plastic

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

Polarity: Cathode Band

 Weight: DO-41 0.30 grams (approx) A-405 0.20 grams (approx)

Mounting Position: AnyMarking: Type Number

	DO-41	Plastic	A-405					
Dim	Min	Max	Min	Max				
Α	25.40	_	25.40	_				
В	4.06	5.21	4.10	5.20				
С	0.71	0.864	0.53	0.64				
D	2.00	2.72	2.00	2.70				
All Dimensions in mm								

"L" Suffix Designates A-405 Package No Suffix Designates DO-41 Package

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

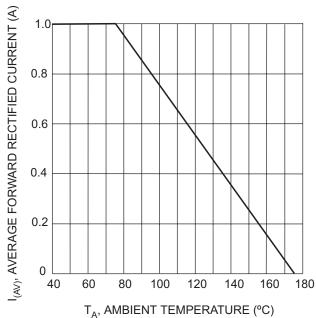
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

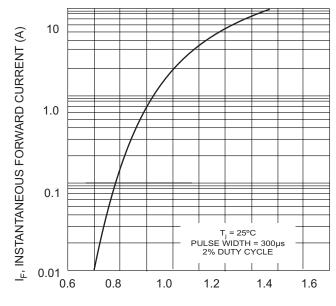
Characteristic		1N 4001/L	1N 4002/L	1N 4003/L	1N 4004/L	1N 4005/L	1N 4006/L	1N 4007/L	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		50	100	200	400	600	800	1000	V
RMS Reverse Voltage		35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1) @ T _A = 75°C		1.0						А	
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)		30						А	
Forward Voltage @ I _F = 1.0A	V _{FM}	1.0						V	
$ \begin{array}{llllllllllllllllllllllllllllllllllll$		5.0 50						μА	
Typical Junction Capacitance (Note 2)		15 8					pF		
Typical Thermal Resistance Junction to Ambient		100						K/W	
Maximum DC Blocking Voltage Temperature		+150					°C		
Operating and Storage Temperature Range (Note 3)		-65 to +175					°C		

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

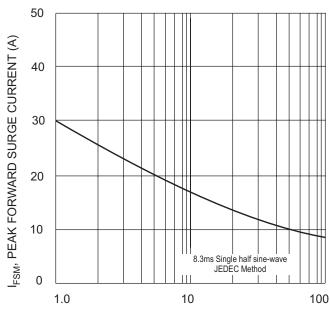
2. Measured at 1. MHz and applied reverse voltage of 4.0V DC.

3. JEDEC Value





 $V_{\rm F}$, INSTANTANEOUS FORWARD VOLTAGE (V) Fig. 1 Forward Current Derating Curve Fig. 2 Typical Forward Characteristics



NUMBER OF CYCLES AT 60 Hz

Fig. 3 Max Non-Repetitive Peak Fwd Surge Current



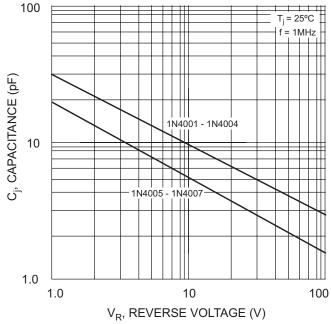


Fig. 4 Typical Junction Capacitance