

1 AMP PLASTIC SILICON RECTIFIER

FEATURES

- Rating to 1000V PRV
- Low cost
- Diffused junction
- Low leakage
- Low forward voltage drop
- High current capability
- Easily cleaned with freon, alcohol, chlorothene and similar solvents
- UL recognized 94V-O plastic material

Mechanical Data

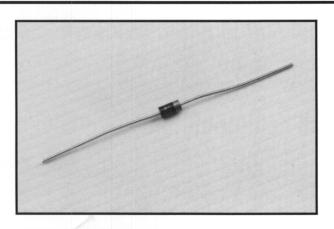
- Case: JEDEC DO-41
- Terminals: Axial leads, solderable per MIL-STD-202, Method 208
- Polarity: Color band denotes cathode
- Weight: 0.012 ounce, 0.3 grams
- Mounting Position: Any

Maximum Ratings & 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%

		1N4001	1N4002	1N4003	1N4004	1N4005	1N4006	1N4007	Units
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current	I (AV)	1.0							А
.375 (9.5mm) Lead Lengths @ T _A = 75° C	' (AV)								
Peak Forward Surge Current		40							
8.3 ms Single Half-Sine-Wave	IFSM								Α
Superimposed On Rated Load									
Maximum Forward Voltage At 1.0A DC	VF				1.0				V
Maximum DC Reverse Current @ T _A = 25°C	IR	5 50							μА
At Rated DC Blocking Voltage @ T _A = 100°C	i K								
Typical Junction Capacitance (Note 1) T _A = 25° C	C _J 15						pF		
Typical Thermal Resistance (Note 2)	RthJA	26					°C/W		
Operating Temperature Range	TJ	-65 to +175						°C	
Storage Temperature Range	Тѕтс	-65 to +175						°C	

Notes: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC



Outline Drawing

