

Green Products

1N4001 THRU 1N4007 1.0 SILICON RECTIFIER

Features:

- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

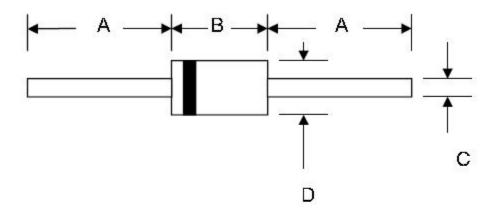
Mechanical data:

Case: Molded Plastic

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

Polarity: Cathode Band
Weight: 0.35 grams(Approx)
Mounting Position: Any

Mechanical Dimensions: In mm/Inches



DO-41									
Dim	Min	Max	Min	Max					
Α	A 25.4		1.000	<u>2</u> 2					
В	4.06	5.21	0.159	0.205					
С	0.71	0.864	0.028	0.034					
D	2.00	2.72	0.079	0.107					
	In mm		In inch						

DO-41

[•] China - Germany - Korea - Singapore - United States •





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Marking Diagram:

Where XXXXX is YYWWL



1N4001 = Part Name SSG = SSG YY = Year WW = Week L = Lot Number

Cautions: Molding resin

Epoxy resin UL: 94V-0

Ordering Information

Device	Package	Shipping		
1N4001-1N4007	DO-41	5000pcs / tape		
1144001 1144001	(Pb-Free)	occopes / tape		

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification.



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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%.

Type Number	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	V _{RRM} V _{RWM} V _R	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	V _{RMS}	35	70	140	280	420	560	700	٧
Average forward rectified output current @T _A = 75°C	Io	1.0							Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	30							А
Forward Voltage @I _F =1.0A	V _{FM}	1.0						V	
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 100°C	I _{RM}	5.0 50						μA	
Typical Junction Capacitance (Note 2)	Сл	15							pF
Typical Thermal Resistance Junction to Ambient (Note 1)	R _{0JA}	50							°C/W
Operating Junction Temperature Range	TJ	-65 to +125						°C	
Storage Temperature Range	T _{STG}	-65 to +150						°C	

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

^{2.} Measured at 1MHz and applied reverse voltage of 4.0V D.C.





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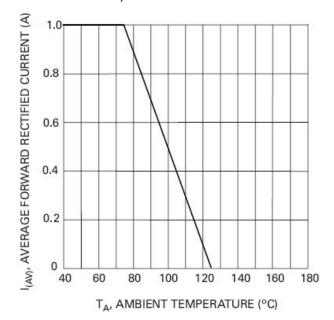


Fig. 1 Forward Current Derating Curve

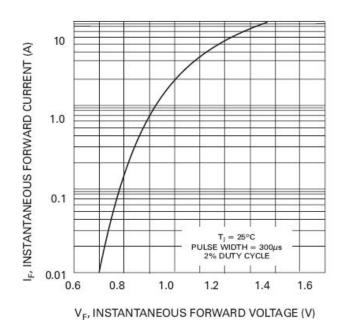


Fig. 2 Typical Forward Characteristics

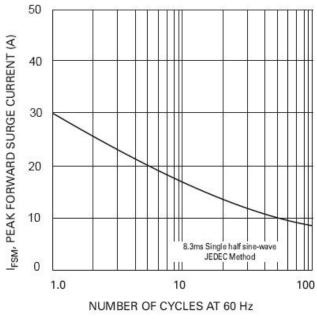


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

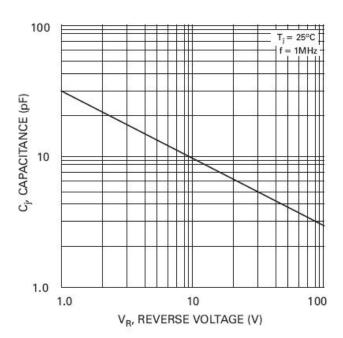


Fig. 4 Typical Junction Capacitance





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