

1N4001 thru 1N4007

PLASTIC SILICON RECTIFIERS

REVERSE VOLTAGE - 50 to 1000 Volts FORWARD CURRENT - 1.0 Ampere

FEATURES

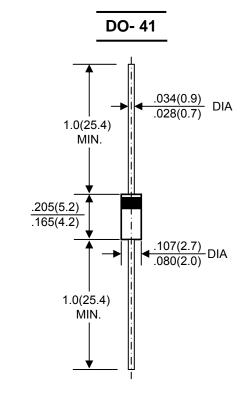
- ●Low cost
- Diffused junction
- ■Low forward voltage drop
- ■Low reverse leakage current
- High current capability
- ●The plastic material carries UL recognition 94V-0

MECHANICAL DATA

● Case: JEDEC DO-41 molded plastic

Polarity: Color band denotes cathodeWeight: 0.012 ounces , 0.34 grams

Mounting position :Any



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave ,60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

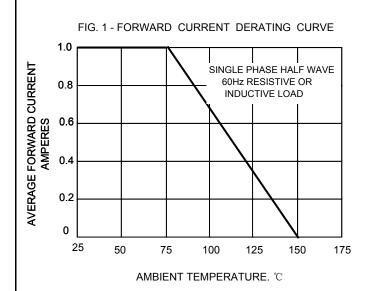
CHARACTERISTICS	SYMBOL	1N4001	1N4002	1N4003	1N4004	1N4005	1N4006	1N4007	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @Ta=75 ℃	I(AV)	1.0							Α
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed On Rated Load (JEDEC Method)	IFSM	30						А	
Maximum Forward Voltage at 1.0A DC	VF	1.0					V		
Maximum DC Reverse Current @TJ=25℃ at Rated DC Blocking Voltage @TJ=100℃	lR	5.0 50							μΑ
Typical Junction Capacitance (Note1)	Cı	15						pF	
Typical Thermal Resistance (Note2)	Rejc	26						°C/W	
Operating Temperature Range	TJ	-55 to +150							$^{\circ}$
Storage Temperature Range	Тѕтс	-55 to +150							$^{\circ}\!$

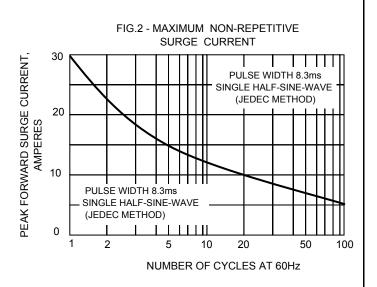
NOTE:1.Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.

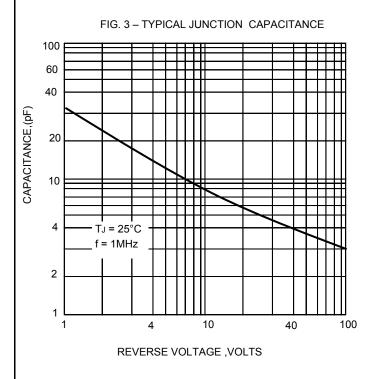
- 2. Thermal resistance junction to case
- 3.The typical data above is for reference only(典型值仅供参考).

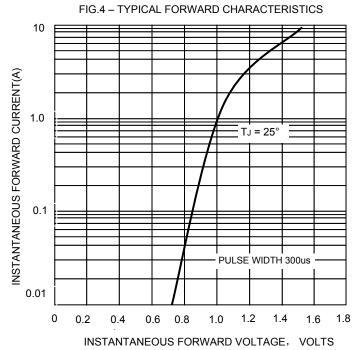
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The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!



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