# 1N4001 THRU 1N4007

### **Plastic Silicon Rectifiers**

## Reverse Voltage - 50 to 1000Volts **Forward Current - 1.0 Amperes**

#### **Features**

- Low cost
- Low reverse leakage current
- Low forward voltage drop
- High surge capacity
- Meet UL flammability classification 94V-0

#### **Mechanical Data**

- Case: JEDEC DO-41 molded plasti
- Polarity: Color band denotes cathode
- Mounting position: Any

Note: Products with logo **H y** or **y** 

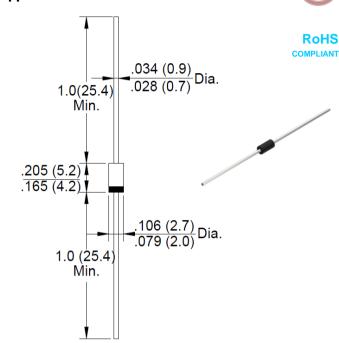


are made byHY Electronic (Cayman) Limited.

## **Applications**

• For use in low voltage, high frequency inverters, polarity protection applications

#### **DO-41**



Package Outline Dimensions in Inches (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%.

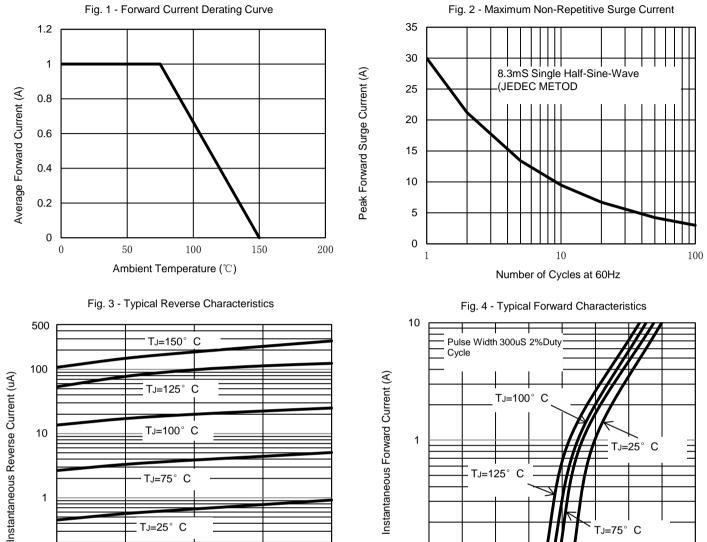
Symbol	1N4001	1N4002	1N4003	1N4004	1N4005	1N4006	1N4007	Unit
VRRM	50	100	200	400	600	800	1000	V
VRMS	35	70	140	280	420	560	700	V
VDC	50	100	200	400	600	800	1000	V
I(AV)	1.0							Α
Icom	20							А
IFSIVI	IF3IVI 3U							Α
l <sup>2</sup> t	3.7						A <sup>2</sup> s	
VF	1.0						V	
ln.	5.0 50							uA
IK								
CJ	15						pF	
Rejc	26							°C/W
TJ	-55 to+150							$^{\circ}\!\mathbb{C}$
Tstg	-55 to+150							$^{\circ}$
	VRRM VRMS VDC I(AV) IFSM I <sup>2</sup> t VF IR CJ Rejc TJ	VRRM 50  VRMS 35  VDC 50  I(AV)  IFSM  I²t  VF  IR  CJ  RØJC  TJ	VRRM 50 100  VRMS 35 70  VDC 50 100  I(AV)  IFSM  I²t  VF  IR  CJ  ReJC  TJ	VRRM 50 100 200  VRMS 35 70 140  VDC 50 100 200  I(AV)  IFSM  I²t  VF  IR  CJ  ReJC  TJ	VRRM         50         100         200         400           VRMS         35         70         140         280           VDC         50         100         200         400           I(AV)         1.0           IFSM         30           I <sup>2</sup> t         3.7           VF         1.0           IR         5.0           CJ         15           ReJC         26           TJ         -55 to+150	VRRM         50         100         200         400         600           VRMS         35         70         140         280         420           VDC         50         100         200         400         600           I(AV)         1.0           IFSM         30           I²t         3.7           VF         1.0           IR         5.0           50         50           CJ         15           ReJC         26           TJ         -55 to+150	VRRM         50         100         200         400         600         800           VRMS         35         70         140         280         420         560           VDC         50         100         200         400         600         800           I(AV)         1.0           IFSM         30           I²t         3.7           VF         1.0           IR         5.0           50         50           CJ         15           ReJC         26           TJ         -55 to+150	VRRM 50 100 200 400 600 800 1000  VRMS 35 70 140 280 420 560 700  VDC 50 100 200 400 600 800 1000  I(AV) 1.0  IFSM 30  I²t 3.7  VF 1.0  IR 50  CJ 15  ReJC 26  TJ -55 to+150

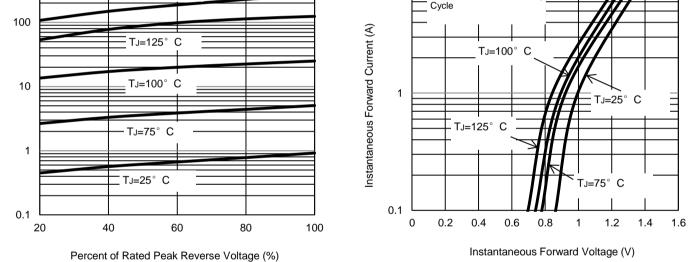
Notes: 1. 300uS pulse width, 2%duty cycle.

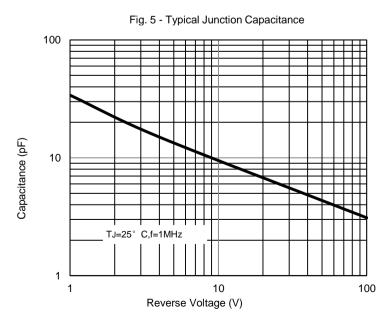
- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.
- 3. The typical data above is for reference only .

1N400\*-A/B/T-00/99-00/01 Rev. 11, 18-May-2020









The curve above is for reference only.

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