

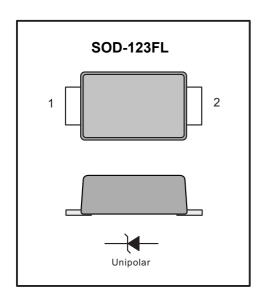
## 1N4001 THRU 1N4007

Reverse Voltage - 50 to 1000 Volts Forward Current - 1.0 Ampere

#### SURFACE MOUNT GENERAL RECTIFIER

#### **PINNING**

PIN	DESCRIPTION
1	Cathode
2	Anode



## **Features**

- Glass passivated device
- Ideal for surface mouted applications
- Low reverse leakage
- Metallurgically bonded construction
- High temperature soldering guaranteed:
- 250°C/10 seconds,0.375"(9.5mm) lead length, 5 lbs. (2.3kg) tension

## **Mechanical Data**

- ◆ Case\*: JEDEC ÙOD-123FL molded plastic body
- Terminals: Solderable per MIL-STD-750, Method 2026Á
- Polarity: Polarity symbol marking on body
- Mounting Position: Any
- Weight: 0.00€7 ounce, 0.02 grams

## **Maximum Ratings And Electrical Characteristics**

Ratings at 25°C ambient temperature unless otherwise specified.

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

Parameter		1N4001	1N4002	1N4003	1N4004	1N4005	1N4006	1N4007	UNITS
Marking Code		A1	A2	А3	A4	A5	A6	A7	
Maximum repetitive peak reverse voltage		50	100	200	400	600	800	1000	V
Maximum RMS voltage		35	70	140	280	420	560	700	V
Maximum DC blocking voltage		50	100	200	400	600	800	1000	V
Maximum average forward rectified current at TL(see fig.1)		1.0							А
Peak forward surge current									
8.3ms single half sine-wave		IFSM 25							Α
superimposed onrated load (JEDEC Method)									
Maximum instantaneous forward voltage at 1.0A		1.1							V
Maximum DC reverse current TA=25℃ at rated DC blocking voltage TA=125℃		10 50							uA
Typical junction capacitance (NOTE 1)		4							pF
Typical thermal resistance (NOTE 2)		180.0							°C/W
Operating junction temperature range		-55 to +125							°C
Storage temperature range		-55 to +150							$^{\circ}\!\mathbb{C}$

Note: 1.Averaged over any 20ms period. 2.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

3. Thermal resistance from junction to ambient at 0.375" (9.5mm)lead length, P.C.B. mounted

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Fig.1 Forward Current Derating Curve

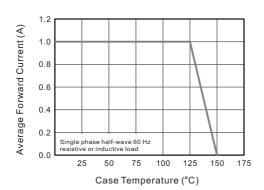


Fig.2 Typical Instaneous Reverse Characteristics

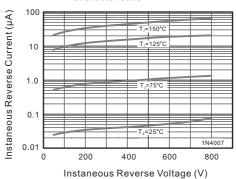


Fig.3 Typical Forward Characteristic

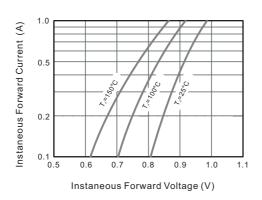


Fig.4 Typical Junction Capacitance

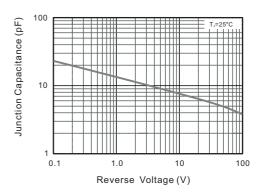
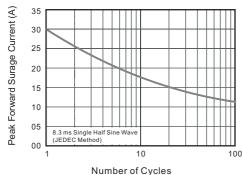


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current





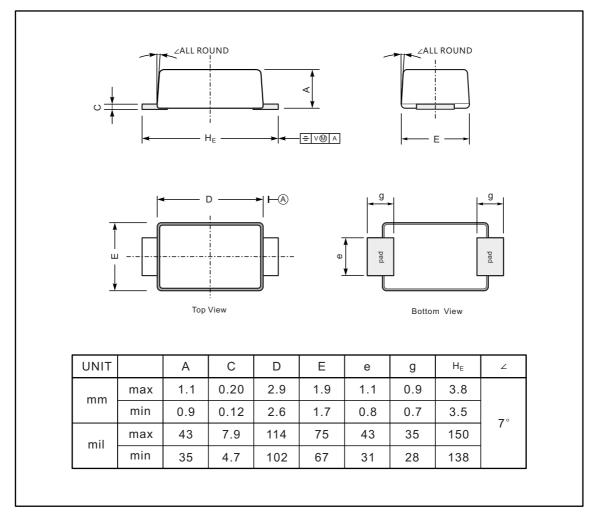
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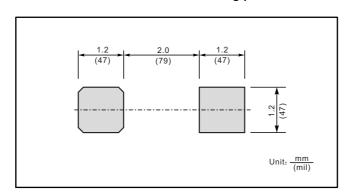
### PACKAGE OUTLINE

### Plastic surface mounted package; 2 leads

SOD-123FL



### The recommended mounting pad size



3