

Surface Mount Glass Passivated Standard Rectifier Forward Current - 1.0A

FEATURES

- For surface mounted applications
- Low profile package
- Glass Passivated Chip Junction
- · Easy to pick and place
- Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

•Case: SOD-323

•Terminals: Solderable per MIL-STD-750, Method 2026

-Approx. Weight: 5.48mg / 0.00019oz

PINNING

PIN	DESCRIPTION		
1	Cathode		
2	Anode		



Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

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

Parameter	Symbols	1N4007WS	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	1000	٧
Maximum RMS voltage	V _{RMS}	700	V
Maximum DC Blocking Voltage	V _{DC}	1000	V
Maximum Average Forward Rectified Current	I _{F(AV)}	1	А
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I _{FSM}	15	А
Maximum Instantaneous Forward Voltage at 1 A	V _F	1.1	V
Maximum DC Reverse Current $T_a = 25 ^{\circ}\text{C}$ at Rated DC Blocking Voltage $T_a = 125 ^{\circ}\text{C}$	I _R	5 50	μA
Typical Thermal Resistance ⁽¹⁾	$R_{\theta JA}$	55	°C/W
Typical reverse recovery time (2)	trr	1.8	us
Typical junction capacitance (3)	C _i	5	pF
Operating and Storage Temperature Range	T_{j},T_{stg}	-55 ~ +150	°C

^(1) P.C.B. mounted with 0.2" X 0.2" (5 X 5 mm) copper pad areas.

www.yongyutai.com PAGE 1

⁽²⁾ Measured with IF=0.5A, IR =1A, I_{rr} =0.25A

⁽ 3) Measured at 1 MHz and applied reverse voltage of 4 V D.C



Fig.1 Forward Current Derating Curve

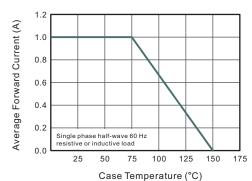


Fig.2 Typical Instaneous Reverse Characteristics

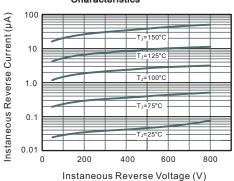


Fig.3 Typical Forward Characteristic

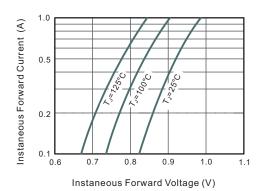


Fig.4 Typical Junction Capacitance

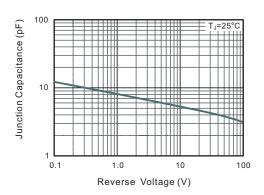
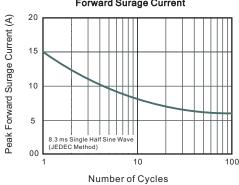


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current



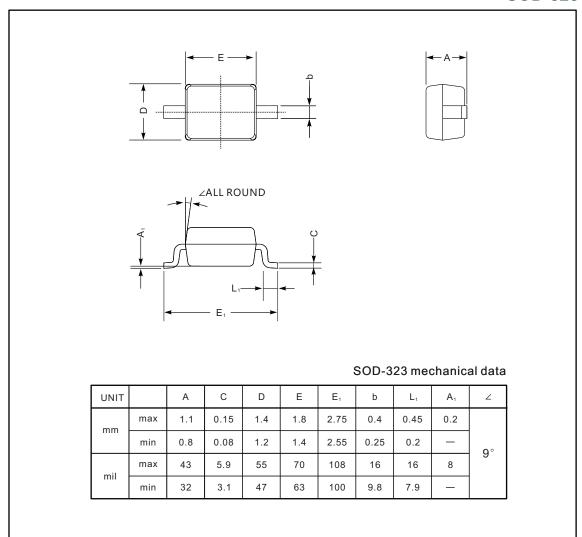
www.yongyutai.com PAGE 2



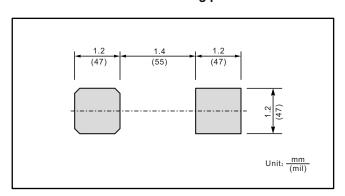
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-323



The recommended mounting pad size



www.yongyutai.com PAGE 3

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Diodes - General Purpose, Power, Switching category:

Click to view products by Yongyutai Electronics manufacturer:

Other Similar products are found below:

MCL4151-TR3 MMBD3004S-13-F RD0306T-H BAV17-TR BAV19-TR 1N3611 NTE156A NTE574 NTE6244 1SS181-TP

1SS400CST2RA SDAA13 SHN2D02FUTW1T1G LS4151GS08 1N4449 1N456A 1N4934-E3/73 1N914B 1N914BTR 1SS226-TP

RFUH20TB3S D291S45T BAV300-TR BAW56DWQ-7-F BAW75-TAP MM230L-CAA IDW40E65D1 JAN1N3600 JAN1N4153-1

JAN1N4454-1 JAN1N4454UR-1 LL4151-GS18 053684A SMMSD4148T3G 707803H NSVDAN222T1G CDSZC01100-HF LL4150-M-08

1N4454-TR BAV199E6433HTMA1 BAV70HDW-7 BAS28-7 JANTX1N6640 BAW56HDW-13 BAS28 TR VS-HFA04SD60STR-M3

NSVM1MA152WKT1G 1SS388-TP RGP30D-E3/73 VS-8EWF02S-M3