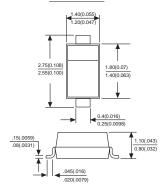


1N4007WS

SURFACE MOUNT GENERAL RECTIFIER

Reverse Voltage - 600 Volts Forward Current - 1.0 Amperes

SOD-323



Dimensions in millimeters and (inches)

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 Plated leads solderable per MIL-STD-750, Method 2026

Weight: 5.48mg / 0.00019oz

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%.

MDD Catalog Number	SYMBOLS	1N4007WS	UNITS
Marking code		MDD D7	
Maximum repetitive peak reverse voltage	VRRM	600	VOLTS
Maximum RMS voltage	VRMS	420	VOLTS
Maximum DC blocking voltage	VDC	600	VOLTS
Maximum average forward rectified current at Tc=125°C	l(AV)	1.0	Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	7.5	Amps
Maximum instantaneous forward voltage at 1.0A	VF	1.1	Volts
Maximum DC reverse current Ta=25℃ at rated DC blocking voltage Ta=100℃	lR	5.0 50.0	μА
Typical thermal resistance (NOTE 2)	RθJA	357	°C/W
Operating junction and storage temperature range	ТЈ,Тѕтс	-50 to +150	°C

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



⁽²⁾ P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.

RATINGS AND CHARACTERISTIC CURVES 1N4007WS

Fig.1 Forward Current Derating Curve

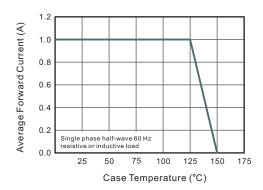


Fig.2 Typical Instaneous Reverse Characteristics

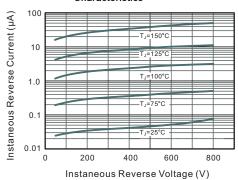


Fig.3 Typical Forward Characteristic

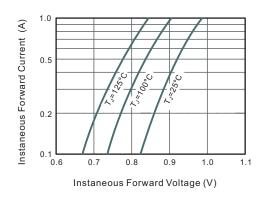


Fig.4 Typical Junction Capacitance

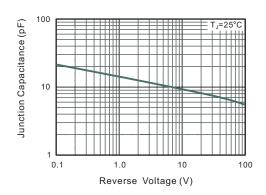
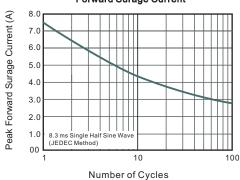


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current



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

