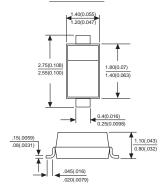


1N4001WS THRU 1N4007WS

SURFACE MOUNT GENERAL RECTIFIER

Reverse Voltage - 50-1000 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	4001	4002	4003	4004	4005	4006	4007	UNITS
Marking code		MDD D1	MDD D2	MDD D3	MDD D4	MDD D5	MDD D6	MDD D7	
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	400	600	800	1000	VOLTS
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	VOLTS
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	VOLTS
Maximum average forward rectified current at Tc=125℃	l(AV)	1.0							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	Іғѕм	25							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 1)	Rθja	55							°C/W
Typical reverse recovery time (NOTE 2)	Trr	1800							Ns
Typical junction capacitance (NOTE 3)	Сл	5							pF
Operating junction and storage temperature range	Тл,Твтв	-55 to +150							°C

NOTE

- (1) P.C.B. mounted with 0.2" X 0.2" (5 X 5 mm) copper pad areas.
- (2) Measured with IF=0.5A, IR =1A, Irr=0.25A
- (3) Measured at 1 MHz and applied reverse voltage of 4 V D.C



RATINGS AND CHARACTERISTIC CURVES 1N4001WS THRU 1N4007WS

Fig.1 Forward Current Derating Curve

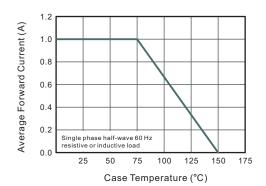


Fig.3 Typical Forward Characteristic

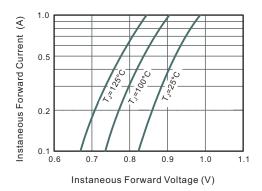


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

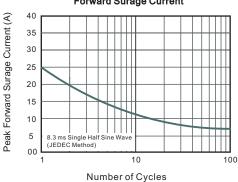


Fig.2 Typical Instaneous Reverse Characteristics

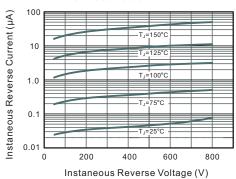
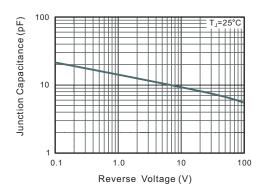


Fig.4 Typical Junction Capacitance





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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