MSKSEMI 美森科



ESD











1N4001W-1N4007W

Product specification





FEATURES

- Ideal for surface mount applications
- Easy pick and place
- Built-in strain relief
- High surge current capability

MECHANICAL DATA

- Case: Molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Terminals: Solder plated, solderable per MIL-STD-202F, method 208 guranteed
- Polarity: Color band denotes cathode end
- Mounting position: Any

Reference News

PACKAGE OUTLINE	Circuit	PINNING		
0		PIN	DESCRIPTION	
SOD-123FL		1	Cathode	
		2	Anode	

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 2.5 °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	1N4001W A1	1N4002W A2	1N4003W A3	1N4004W A4	1N4005W A5	1N4006W A6	1N4007W A7	UNITS
Maximum repetitive peak reverse v	oltage	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 Ta=65 C (NOTE 1)	current at	l(AV)				1.0		·	·	Amp
Peak forward surge current										
8.3ms single half sine-wave superimposed on rated		IFSM	25.0						Amps	
load (JEDEC Method) T∟=25 C										
Maximum instantaneous forward vol	tage at 1.0A	Vf	1.0			Volts				
Maximum DC reverse current at	Ta=25℃		10.0							
rated DC blocking voltage	Ta=125℃	IR	50.0					μA		
Typical junction capacitance (NOTE	E 2)	J				4				pF
Typical thermal resistance (NOTE 3	3)	R9ja				180				K/W
Operating junction and storage tem	perature range	Tj,Tstg			-65	i to +150				°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



ELECTRICAL CHARACTERISTICS CURVE

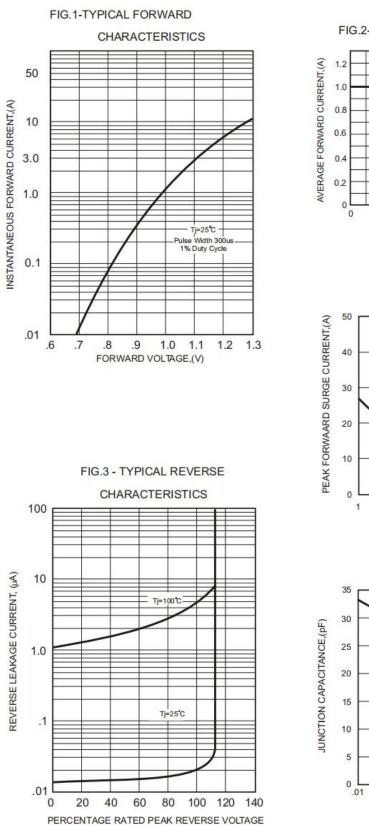


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

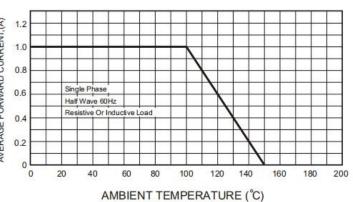
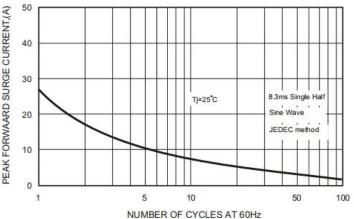
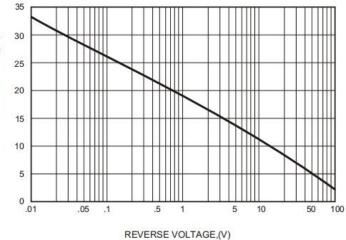


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



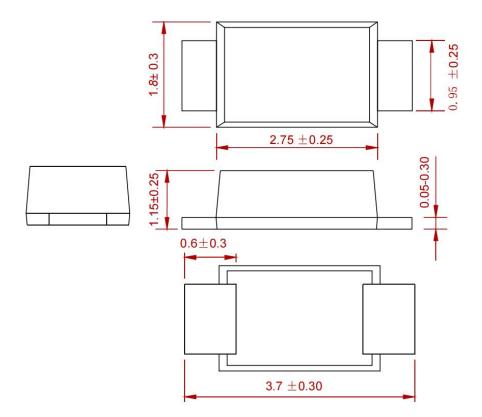




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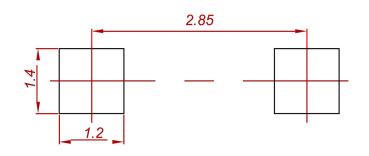


PACKAGE MECHANICAL DATA



Dimensions in millimeters

Suggested Pad Layout



Note:

1.Controlling dimension: in millimeters.

2.General tolerance:±0.05mm.

3. The pad layout is for reference purposes only.

REEL SPECIFICATION

P/N	PKG	QTY
1N4001W-1N4007W	SOD-123FL	3000

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