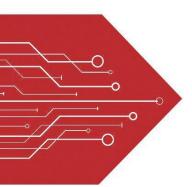
MSKSEMI















ESD

TVS

TSS

MOV

GDT

PLED

Broduct data sheet



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 SOD-123FL molded plastic body over passivated chip

Terminals: Solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any Weight: 0.0007 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%.

	SYMBOLS	1N4001	1N4002	1N4003	1N4004	1N4005	1N4006	1N4007	UNITS
©atalog Number		A1	A2	А3	A4	A5	A6	A7	
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	Long	1.0							Amp
at Ta=65°C (NOTE 1)	I(AV)								
Peak forward surge current									
8.3ms single half sine-wave superimposed on	I _{FSM} 25.0					Amps			
rated load (JEDEC Method) TL=25 C									
Maximum instantaneous forward voltage at 1.0A	VF	1.0			Volts				
Maximum DC reverse current Ta=25°C		10.0							μА
at rated DC blocking voltage Ta=125℃	l _R	50.0							
Typical junction capacitance (NOTE 2)	Сл	4			pF				
Typical thermal resistance (NOTE 3)	Reja	180			K/W				
Operating junction and storage temperature range	Т _J ,Тsтg	-55 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

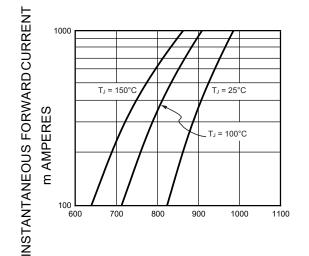




INSTANTANEOUS REVERSE CURRENT

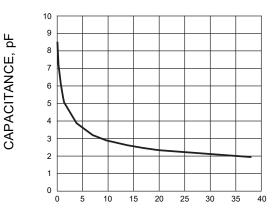
μ AMPERES

FIG.1 -TYPICALFORWARDCHARACTERISTIC



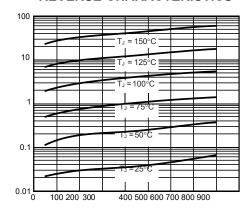
INSTANTANEOUS FORWARD VOLTAGE, mV

FIG.2 -- TYPICAL JUNCTION CAPACITANCE



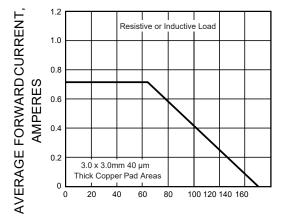
REVERSE VOLTAGE, VOLTS

FIG.3 -- TYPICAL INSTANTANEOUS REVERSE CHARACTERISTICS



INSTANTANEOUS REVERSE VOLTAGE, V

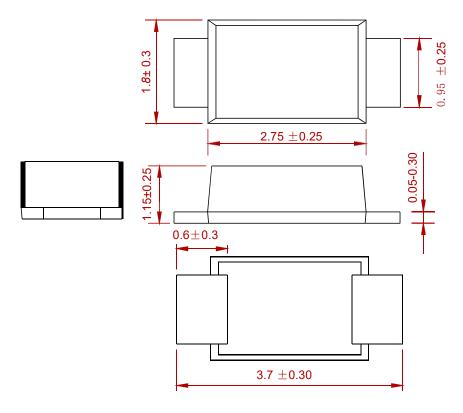
FIG.4 -- FORWARD DERATING CURVE



AMBIENT TEMPERATOR

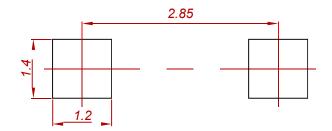


PACKAGE MECHANICAL DATA



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
1N4001 THRU 1N4007	SOD-123FL	3000



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