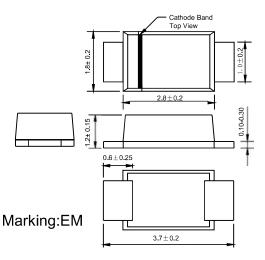
SOD1EM

SURFACE MOUNT SUPER FAST RECTIFIER

Reverse Voltage -1000Volts Forward Current - 1.0 Ampere

SOD-123FL



FEATURES

- Glass passivated device
- Ideal for surface mouted applications
- Low reverse leakage
- Metallurgically bonded construction
- High temperature soldering guaranteed:
- 260°C/10 seconds,0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: JEDEC SOD-123FL molded plastic body Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026 Polarity: Color band denotes cathode end Mounting Position: Any Weight: 0.0007 ounce, 0.02 grams

Dimensions in millimeters

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	SOD1EM	UNITS
Maximum repetitive peak reverse voltage	Vrrm	1000	VOLTS
Maximum RMS voltage	Vrms	700	VOLTS
Maximum DC blocking voltage	Vdc	1000	VOLTS
Maximum average forward rectified current	I(AV)	1.0	Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	Ігѕм	25.0	Amps
Maximum instantaneous forward voltage at1.0A	Vf	1.7	Volts
Maximum DC reverse current Ta=25°C at rated DC blocking voltage Ta=100°C	IR	5.0 100.0	μA
Maximum reverse recovery time (NOTE 1)	trr	35	ns
Typical junction capacitance (NOTE 2)	Сл	10	рF
Typical thermal resistance (NOTE 3)	Reja	85	K/W
Operating junction and storage temperature range	Тј,Тѕтс	-55 to +150	°C

Note: 1.Measured with IF=0.5A, IR=1A, Irr=0.25A.

2.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

PCB mounted on 0.2*0.2" (5.0*5.0mm) coppeer pad area.



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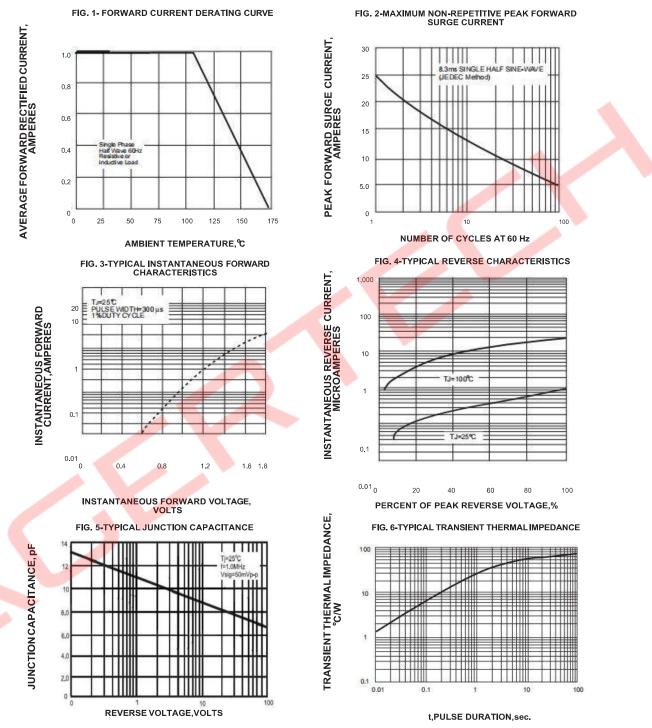
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RATINGS AND CHARACTERISTIC CURVES





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