MSKSEMI 美森科













ESD

TVS

TSS

MOV

GDT

PLED

PMEG1030EH-MS

Product specification





Surface Mount Schottky Barrier Rectifier

Reverse Voltage - 10V

Forward Current - 3.0A

FEATURE

- Metal silicon junction, majority carrier conduction
- For surface mounted applications
- Low power loss, high efficiency
- High forward surge current capability
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

MECHANICAL DATA

Case: SOD-123FL

Terminals: Solderable per MIL-STD-750, Method

2026

Approx. Weight:15mg 0.00048oz

Reference News

SOD-123FL	Pin Configuration	MARKING
2	-	AC S≅

PINNING

PIN	DESCRIPTION		
1	Cathode		
2	Anode		

Absolute Maximum Ratings and Electrical characteristics

Ratings at 25 $^{\circ}$ C ambient temperature unless otherwise specified. Single phase , half wave , 60 Hz resistive or inductive load, for capacitive load , derate by 20 $^{\circ}$ M

Parameter	Symbols	PMEG1030EH-MS	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	10	V
Maximum RMS voltage	V _{RMS}	14	V
Maximum DC Blocking Voltage	V _{DC}	10	V
Maximum Average Forward Rectified Current	I _{F(AV)}	3.0	Α
Peak Forward Surge Current ,8 .3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	80	A
Max Instantaneous Forward Voltage at 3 A	V _F	0.55	V
Maximum DC Reverse Current $T_a = 25^{\circ}C$ at Rated DC Reverse Voltage $T_a = 100^{\circ}C$	I _R	0.5 10	mA
Typical Junction Capacitance ⁽¹⁾	Cj	250	pF
Typical Thermal Resistance ⁽²⁾	R _{0JA}	80	°C/W
Operating Junction Temperature Range	Tj	-55 ~ +125	$^{\circ}$
Storage Temperature Range	T _{stg}	-55 ~ +150	$^{\circ}$

^(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.



ELECTRICAL CHARACTERISTICS CURVE

Fig.1 Forward Current Derating Curve

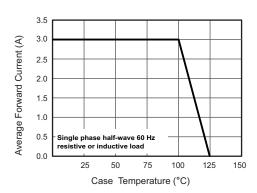


Fig.2 Typical Reverse Characteristics

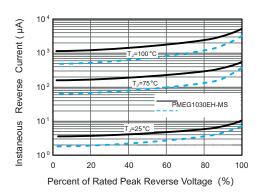


Fig.3 Typical Forward Characteristic

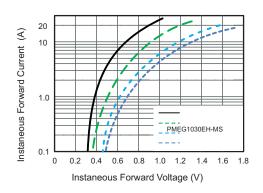


Fig.4 Typical Junction Capacitance

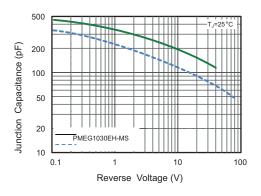
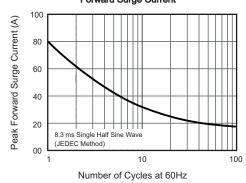
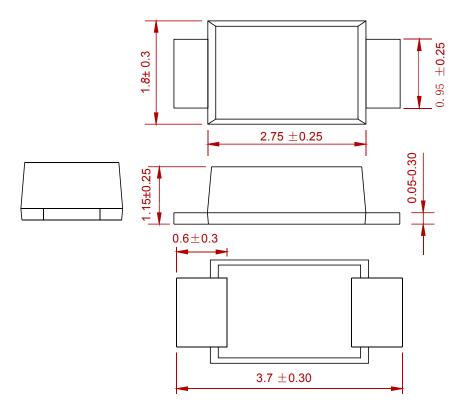


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current



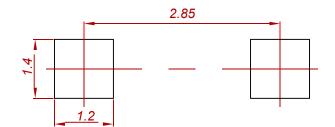


PACKAGEMECHANICALDATA



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
PMEG1030EH-MS	SOD-123FL	3000



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