MSKSEMI 美森科







TVS



TSS



MOV



GDT



DIED

PMEG3005EGWJ-MS

Product specification





Surface Mount Schottky Barrier Rectifier

Reverse Voltage - 30V

Forward Current - 500mA

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
1	- ₩-	GE SM

PINNING

PIN	DESCRIPTION	
1	Cathode	
2	Anode	

Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

Parameter		Symbols	PMEG3005EGWJ-MS	Units
Peak Repetitive Reverse Voltage		V _{RRM}	30	V
RMS reverse voltage reverse voltage (DC)		V _{RMS}	21	V
Maximum DC Blocking Voltage		V _{DC}	30	V
Maximum Average Forward Current at Ta =25 ℃		lo	0.5	А
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		I _{FSM}	22	А
Maximum Instantaneous Forward Voltage	IF=0.1A IF=0.5A IF=1A	V _F	0.36 0.45 –	V
Reverse current	VR = 10V VR = 15V VR = 20V VR = 30V VR = 40V	lR	- 75 100 500 -	uA
Thermal Resistance , Junction to Ambient Air		Reja	500	°C/W
Junction temperature		Tj	-55 ~ +125	°C
Storage temperature		T _{stg}	-55 ~ +150	°C



ELECTRICAL CHARACTERISTICS CURVE

Fig.1 Forward Current Derating Curve

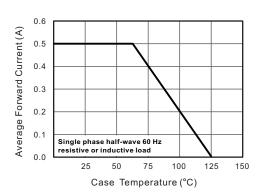


Fig.2 Typical Reverse Characteristics

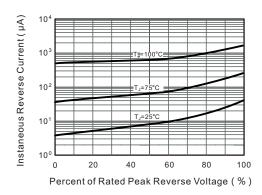


Fig.3 TYPICAL FORWARD VOLTAGE

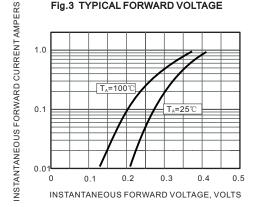


Fig.4 Typical Junction Capacitance

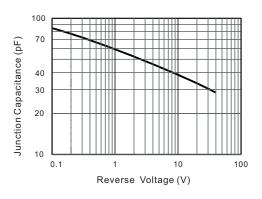


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

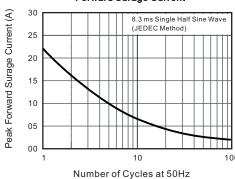
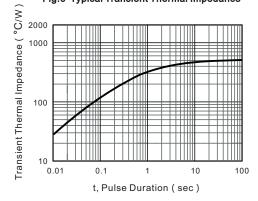
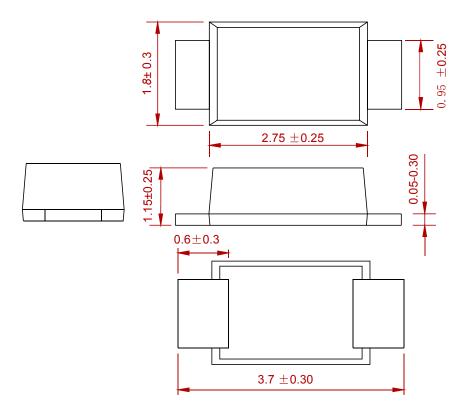


Fig.6 Typical Transient Thermal Impedance



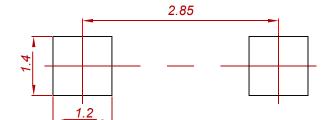


PACKAGEMECHANICALDATA



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
PMEG3005EGWJ-MS	SOD-123FL	3000



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