















ESD

TVS

MOS

LDO

Diode

Sensor

DC-DC

Product Specification

Domestic Part Number	PMEG4030ER
Overseas Part Number	PMEG4030ER
▶ Equivalent Part Number	PMEG4030ER





Surface Mount Schottky Barrier Rectifier

Reverse Voltage - 40 V Forward Current - 3.0A

FEATURES

- 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

1 2

1:Cathode 2:Anode
Simplified outline SOD-123FL and symbol

Absolute 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, derate by 20° K

Parameter	Symbols	Values			
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	40			
Maximum RMS voltage	V _{RMS}	28	٧		
Maximum DC Blocking Voltage	V _{DC}	40			
Maximum Average Forward Rectified Current	I _{F(AV)}	3.0			
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	80			
Max Instantaneous Forward Voltage at 3 A	V _F	0.55			
Maximum DC Reverse Current T _a = 25°C at Rated DC Reverse Voltage T _a = 100°C	I _R	0.3 5	mA		
Typical Junction Capacitance 1)	Cj	160	рF		
Typical Thermal Resistance ²⁾	R _{eJA}	65	°C/W		
Operating Junction Temperature Range	Tj	-55 ~ + 125	°C		
Storage Temperature Range	T _{stg}	-55 ~ + 150	°C		

 $^{1\)}$ $\,$ Measured at 1MHz and applied reverse voltage of 4 V D.C.

^{2)} P.C.B. mounted with 0.2 X 0.2" (5 X 5 mm) copper pad areas.



Fig.3 Typical Forward Characteristic

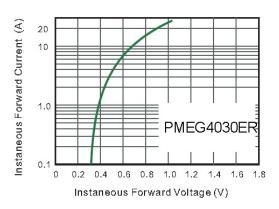


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

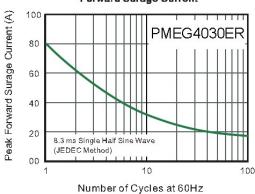


Fig.2 Typical Reverse Characteristics

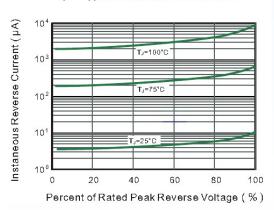


Fig.4 Typical Junction Capacitance

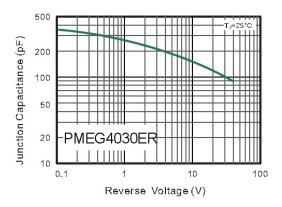
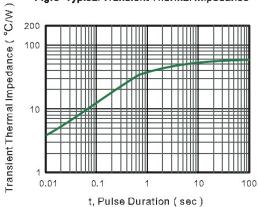


Fig. 6- Typical Transient Thermal Impedance

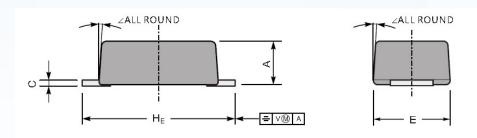


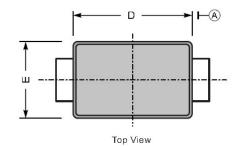


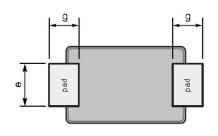
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-123FL



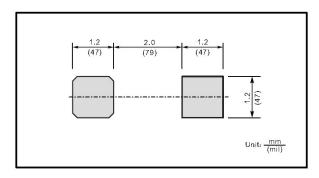




Bottom View

UNIT		Α	С	D	Е	е	g	HE	2
mm	max	1.1	0.20	2.9	1.9	1.1	0.9	3.8	
mm	min	0.9	0.12	2.6	1.7	0.8	0.7	3.5	7°
mil	max	43	7.9	114	75	43	35	150	,
11111	min	35	4.7	102	67	31	28	138	

The recommended mounting pad size





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