



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

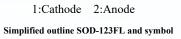
MECHANICAL DATA

- Case: SOD-123FL
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight:15mg 0.00048oz

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 %





Parameter	Symbols	Values			
Maximum Repetitive Peak Reverse Voltage	V _{rrm}	40	V		
Maximum RMS voltage	V _{RMS}	28	V		
Maximum DC Blocking Voltage	V _{DC}	40			
Maximum Average Forward Rectified Current	I _{F(AV)}	3.0	А		
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	IFSM	80			
Max Instantaneous Forward Voltage at 3 A	VF	0.55	V		
Maximum DC Reverse Current $T_a = 25^{\circ}$ C at Rated DC Reverse Voltage $T_a = 100^{\circ}$ C	I _R	0.3 5	mA		
Typical Junction Capacitance ¹⁾	Cj	160			
Typical Thermal Resistance ²⁾	R _{eja}	65			
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.





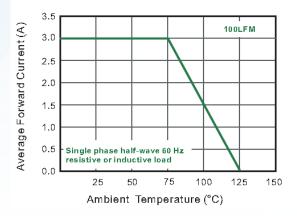
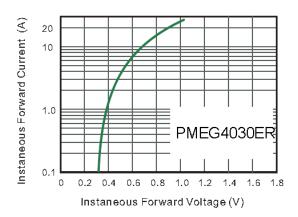
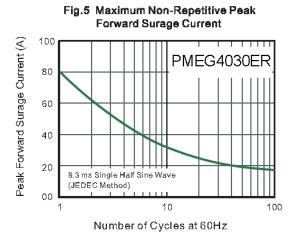


Fig.3 Typical Forward Characteristic





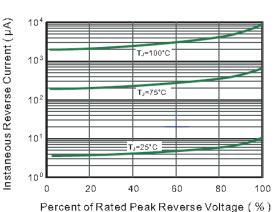
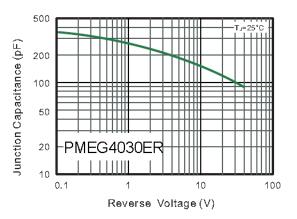


Fig.4 Typical Junction Capacitance



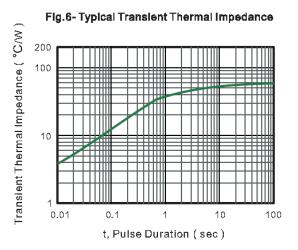


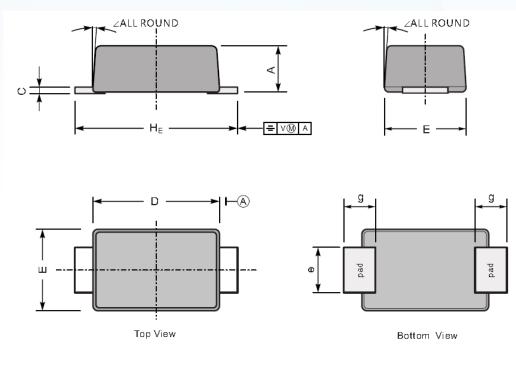
Fig.2 Typical Reverse Characteristics



PACKAGE OUTLINE

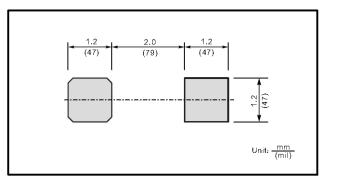
Plastic surface mounted package; 2 leads

SOD-123FL



UNIT		А	С	D	Е	e	g	H _E	Z
mm	max	1.1	0.20	2.9	1.9	1.1	0.9	3.8	7°
mm	min	0.9	0.12	2.6	1.7	0.8	0.7	3.5	
mil	max	43	7.9	114	75	43	35	150	
	min	35	4.7	102	67	31	28	138	

The recommended mounting pad size





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