

PMEG3020ER

Reverse Voltage - 3 0 V Forward Current - 2.0A

Surface Mount Schottky Barrier Rectifier

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

Top View 1 Cathode 2 Anode

Simplified outline SOD-123FL and symbol

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lerate by 20 %							
Parameter	Symbols						
Maximum Repetitive Peak Reverse Voltage	VRRM	30	v				
Maximum RMS voltage	V _{RMS}	28	V				
Maximum DC Blocking Voltage	V _{DG}	40	v				
Maximum Average Forward Rectified Current	_{F(AV)}	2.0	А				
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	_{FSM}	50	A				
Max Instantaneous Forward Voltage at 2 A	VF	0.55	v				
Maximum DC Reverse Current $T_a = 25^{\circ}C$ at Rated DC Reverse Voltage $T_a = 100^{\circ}C$	_R	0.5 5	mA				
Typical Junction Capacitance ¹⁾	Cj	220	pF				
Typical Thermal Resistance ²⁾	Reja	80	°C/W				
Operating Junction Temperature Range		-55 ~ +125	°C				
Storage Temperature Range	⊤ _{stg}	-55 ~ +150	°C				

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz resistive or inductive load, for capacitive load,

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.

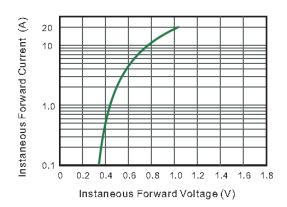


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3.0 Average Forward Current (A) 100LFM 2.5 2.0 1.5 1.0 Single phase half-wave 60 Hz 0.5 resistive or inductive load 0.0 25 50 75 100 125 150 Lead Temperature (°C)

Fig.1 Forward Current Derating Curve

Fig.3 Typical Forward Characteristic



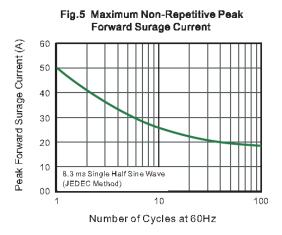


Fig.2 Typical Reverse Characteristics

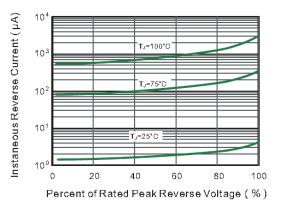
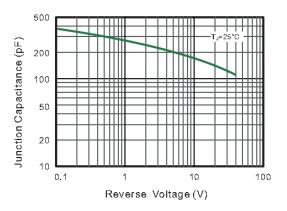
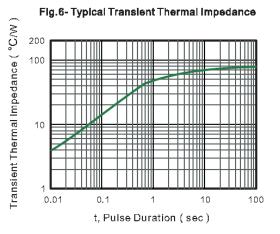


Fig.4 Typical Junction Capacitance





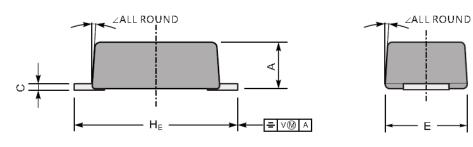


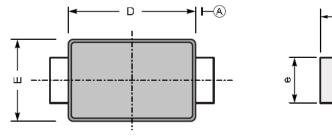
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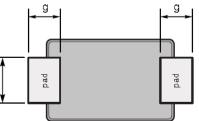
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-123FL





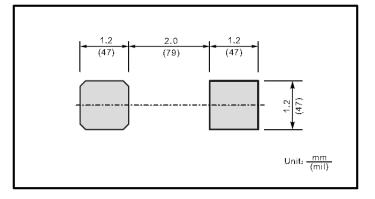


Top View



UNIT		А	С	D	Е	е	g	H _E	Z
mm	max	1.1	0.20	2.9	1.9	1.1	0.9	3.8	7°
	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



单击下面可查看定价,库存,交付和生命周期等信息

>>SHIKUES(时科)