

RB160M-30,40,60,90

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

Reverse Voltage - 30 to 90

Forward Current - 1.0 A



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

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	RB160M-30	RB160M-40	RB160M-60	RB160M-90	Unite	
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	30	30 40		90	٧	
Maximum RMS voltage	V _{RMS}	2 8	28	42	70	V	
Maximum DC Blocking Voltage	V _{pc}	30 40		60	90	٧	
Maximum Average Forward Rectified Current	I _{F(AV)}		1	I	А		
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}		40		30	А	
Max Instantaneous Forward Voltage at 1 A	V _F	0.9	55	0.85	٧		
Maximum DC Reverse Current T _a = 25°C at Rated DC Reverse Voltage T _a = 100°C	I _R		0.3 10		0.2 5	mA	
Typical Junction Capacitance 13	C _j	110			рF		
Typical Thermal Resistance 23	RaJA	115					
Operating Junction Temperature Range	Тј	-55 ~ +125					
Storage Temperature Range	T _{sig}	-55 ~ +150					

¹⁾ Measured at 1MHz and applied reverse voltage of 4 V D.C.

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



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Fig.1 Forward Current Derating Curve

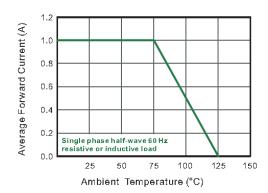


Fig.2 Typical Reverse Characteristics

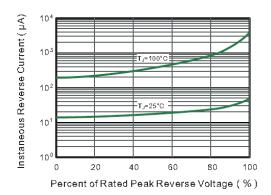


Fig.3 Typical Forward Characteristic

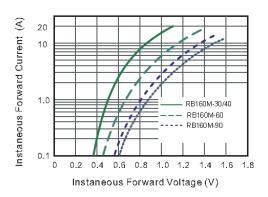


Fig.4 Typical Junction Capacitance

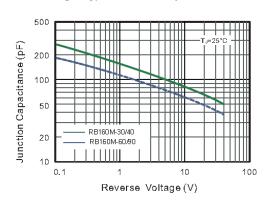


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

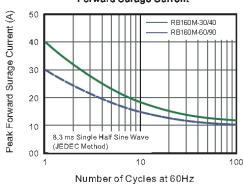
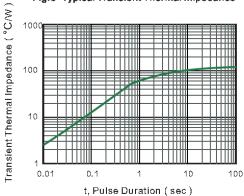


Fig.6- Typical Transient Thermal Impedance



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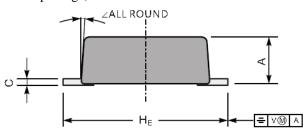
REV.07

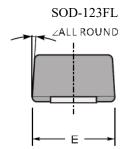


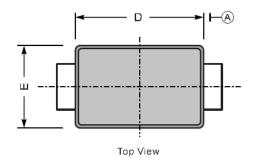
RB160M-30,40,60,90

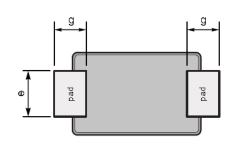
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads





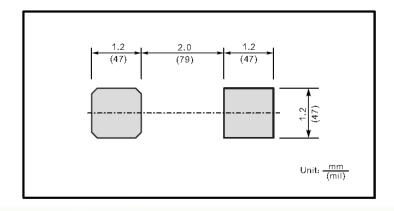




Bottom View

UNIT		Α	С	D	Е	е	g	H∈	_	
mm	max	1.1	0.20	2.9	1.9	1.1	0.9	3.8		
	min	0.9	0.12	2.6	1.7	8.0	0.7	3.5	7°	
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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