

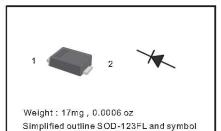
SCHOTTKY BARRIER RECTIFIERS

Features

- Metal silicon junction, majority carrier conduction
- Guarding for overvoltage protection
- Low power loss, high efficiency
- High current capability
- low forward voltage drop
- High surge capability
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

PINNING

PIN	DESCRIPTION			
1	Cathode			
2	Anode			



Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

Parameter	Symbols	B5817WL	B5818WL	B5819WL	Units
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	20	30	40	V
Maximum RMS voltage	V _{RMS}	14	21	28	V
Maximum DC Blocking Voltage	V _{DC}	20	30	40	٧
Maximum Average Forward Rectified Current 0.375" (9.5 mm) Lead Length at TL = 90°C	I _{F(AV)}	1			Α
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed On Rated Load (JEDEC method) at TL = 70°C	I _{FSM}	25			Α
Maximum Instantaneous Forward Voltage at 1 A Maximum Instantaneous Forward Voltage at 3.1 A	V _F	0.45 0.75	0.55 0.875	0.6 0.9	٧
Maximum Instantaneous Reverse Current at TA = 25°C Rated DC Reverse Voltage TA = 100°C	I _R	1 10			mA
Typical Thermal Resistance	Reja Rejl	50 15			°C/W
Typical Junction Capacitance	Ci	110			pF
Storage and Operating Junction Temperature Range	T _j , T _{stg}	-55 ~ +125			°C

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Fig.1 Forward Current Derating Curve

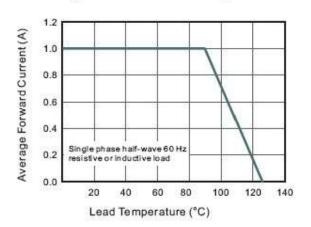


Fig. 3 Typical Forward Characteristic

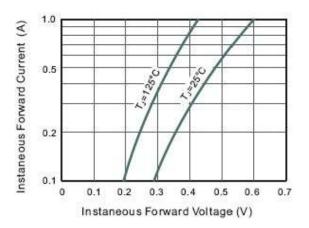


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

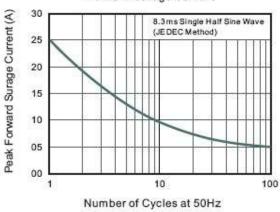


Fig.2 Typical Reverse Characteristics

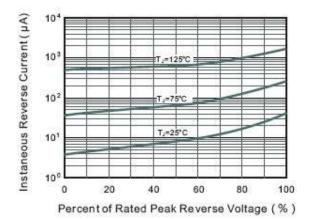


Fig.4 Typical Junction Capacitance

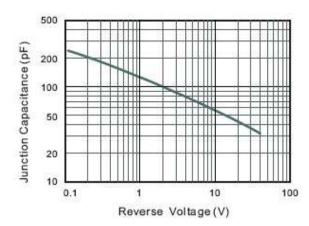
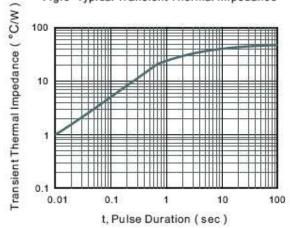


Fig.6- Typical Transient Thermal Impedance



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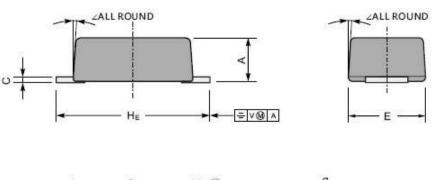
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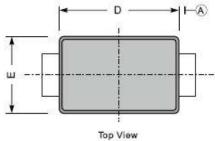


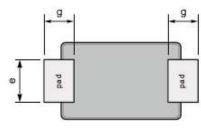
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD123FL







Bottom View

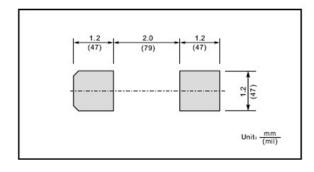
UNIT		Α	С	D	E	е	g	HE	2
mm	max	1.1	0.20	2.9	1.9	1.1	0.9	3.8	7°
	min	0.9	0.12	2.6	1.7	0.8	0.7	3.5	
mil	max	43	7.9	114	75	43	35	150	
	min	35	4.7	102	67	31	28	138	

The recommended mounting pad size

Marking

Type number marking code

B5817WL SJ B5818WL SK B5819WL SL



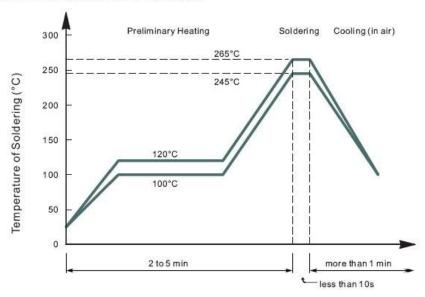
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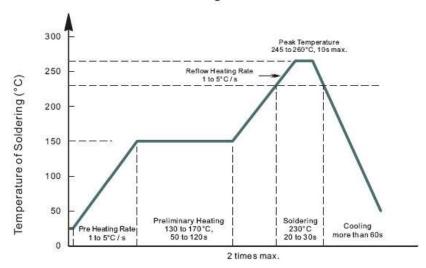




· Recommended condition of flow soldering



· Recommended condition of reflow soldering



Recommended peak temperature is over 245 °C. If peak temperature is below 245 °C, you may adjust the following parameters; time length of peak temperature (longer), time length of soldering (longer), thickness of solder paste (thicker)

• Condition of hand soldering

Temperature: 320°C

Time: 3s max.
Times: one time

• Remark:

Lead free solder paste (96.5Sn/3.0Ag/0.5Cu)

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