

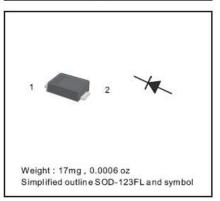
Surface Mount Schottky Barrier Rectifier Reverse Voltage - 60 V Forward Current - 2.0A

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

PINNING

PIN	DESCRIPTION	
1	Cathode	
2	Anode	



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				Uni	its	
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	60				V	,
Maximum RMS voltage	V _{RMS}	42					/
Maximum DC Blocking Voltage	V _{DC}	60					/
Maximum Average Forward Rectified Current	I _{F(AV)}	2.0					\
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	50			40	А	
Max Instantaneous Forward Voltage at 2 A	V _F	0.70		0.85		V	,
Maximum DC Reverse Current T _a = 25°C at Rated DC Reverse Voltage T _a =100°C	I _R	0.5 10			0.3 5	m/	A
Typical Junction Capacitance 1>	Cj	220	80			pF	F
Operating Junction Temperature Range	Tj	-55 ~ +125					С
Storage Temperature Range	T _{stg}	-55 ~ +150					С

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

REV.08 1 of 4



Fig.1 Forward Current Derating Curve

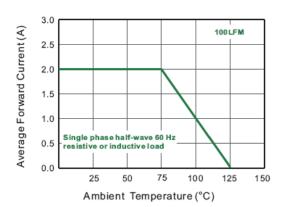


Fig.2 Typical Reverse Characteristics

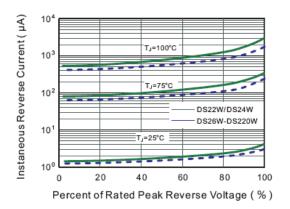


Fig.3 Typical Forward Characteristic

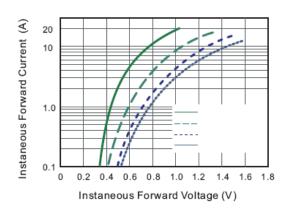


Fig.4 Typical Junction Capacitance

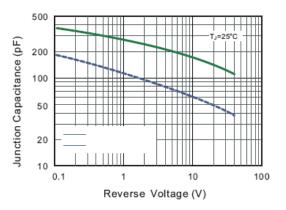
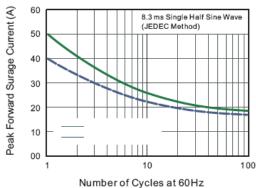


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current



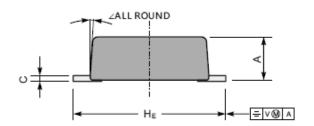
REV.08 2 of 4

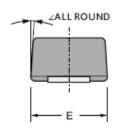


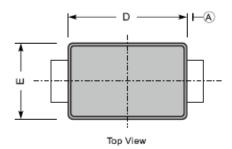
PACKAGE OUTLINE

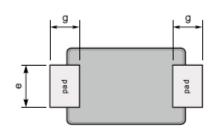
Plastic surface mounted package; 2 leads

SOD123FL





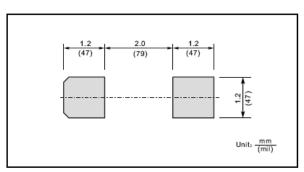




Bottom View

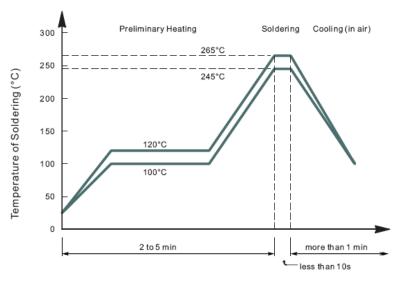
UNIT		Α	С	D	E	е	g	HE	4
mm	max	1.1	0.20	2.9	1.9	1.1	0.9	3.8	7°
	min	0.9	0.12	2.6	1.7	0.8	0.7	3.5	
mil	max	43	7.9	114	75	43	35	150	
	min	35	4.7	102	67	31	28	138	

The recommended mounting pad size

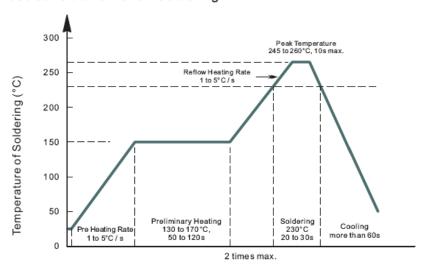


REV.08 3 of 4

· 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: 350°C Time: 3s max. Times: one time

Remark

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

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