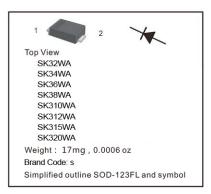


Surface Mount Schottky Barrier Rectifier Reverse Voltage - 20 to 200 V Forward Current - 3.0A

#### 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



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	SK32WA	SK34WA	SK36WA	SK38WA	SK310WA	SK312WA	SK315WA	SK320WA	Units
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	20	40	60	80	100	120	150	200	<b>V</b>
Maximum RMS voltage	V <sub>RMS</sub>	14	28	42	56	80	100	105	140	٧
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	40	60	80	100	120	150	200	V
Maximum Average Forward Rectified Current	I <sub>F(AV)</sub>	3.0							Α	
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I <sub>FSM</sub>	80							Α	
Max Instantaneous Forward Voltage at 3A	V <sub>F</sub>	0.55		0.	0.70 0.		85 0.		95	٧
	I <sub>R</sub>		.5 0	0.3 5						mA
Typical Junction Capacitance 1)	Cj	25	50	160						pF
Typical Thermal Resistance 2)	$R_{\theta JA}$	40						°C/W		
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.

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Fig.1 Forward Current Derating Curve

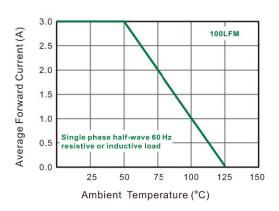


Fig.2 Typical Reverse Characteristics

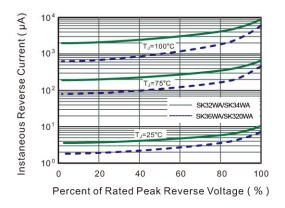


Fig.3 Typical Forward Characteristic

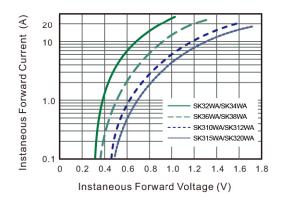


Fig.4 Typical Junction Capacitance

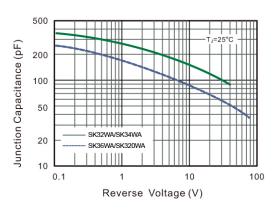


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

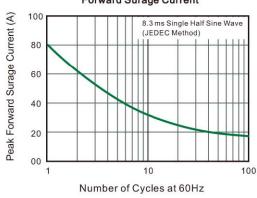
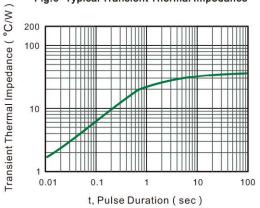


Fig.6- Typical Transient Thermal Impedance



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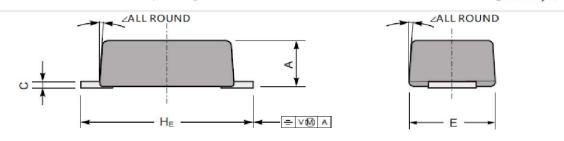


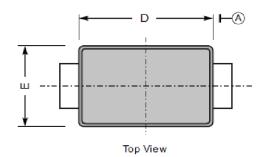


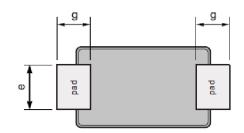
## PACKAGE OUTLINE

### Plastic surface mounted package; 2 leads

S0D12371



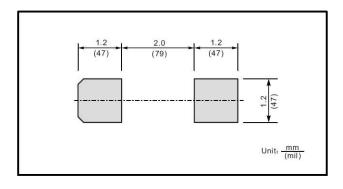




Bottom View

UNIT		Α	С	D	Е	е	g	H <sub>E</sub>		
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



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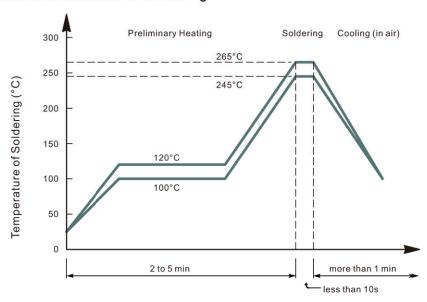
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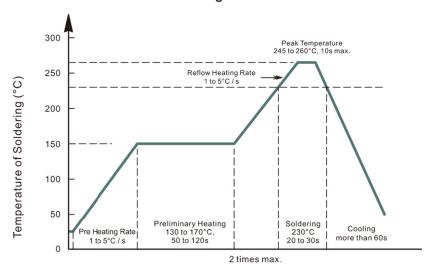




#### · Recommended condition of flow soldering



### · 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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