



# SK32F THRU SK325F

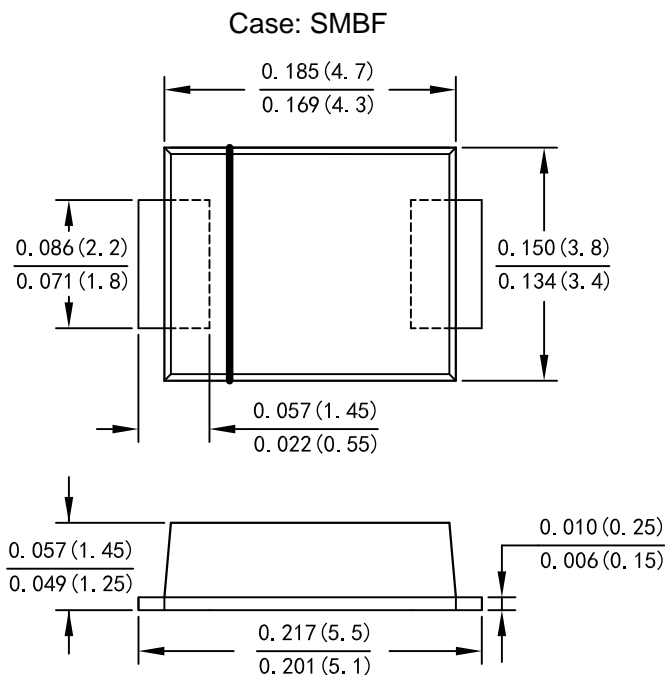
## 3.0 AMP Surface Mount Schottky Barrier Rectifiers

### Features

- Low Power Loss,High Efficiency
- Ideally Suited for Automatic Assembly
- For Use in Low Voltage Application
- Plastic Case Material has UL Flammability Classification Rating 94V-0

### Mechanical Data

- Case: Molded plastic SMBF
- Terminals: Plated leads solderable per MIL-STD-750,Method 2026 guaranteed
- Polarity: Color band dented cathode end
- Mounting Position: Any
- Making: Type Number



### Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified

Single phase,half wave,60Hz,resistive or inductive load

For capacitive load derate current by 20%

Type Number	SYMBOL	SK 32F	SK 33F	SK 34F	SK 345F	SK 35F	SK 36F	SK 38F	SK 310F	SK 315F	SK 320F	SK 325F	Unit
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	20	30	40	45	50	60	80	100	150	200	250	V
Maximum RMS Voltage	V <sub>RMS</sub>	14	21	28	31	35	42	56	70	105	140	175	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	30	40	45	50	60	80	100	150	200	250	V
Average Rectified Output Current @T <sub>L</sub> =100 °C	I <sub>F(AV)</sub>	3.0											A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	80											A
I <sup>2</sup> t Rating for Fusing (t < 8.3ms)	I <sup>2</sup> t	14.94											A <sup>2</sup> s
Forward Voltage @IF=3.0A	V <sub>FM</sub>	0.55				0.7		0.85		0.92		0.95	V
Peak Reverse Current @T <sub>A</sub> =25 °C	I <sub>R</sub>	0.1						0.05					mA
At Rated DC Blocking Voltage @T <sub>A</sub> =100 °C		10						5					
Typical Junction Capacitance (Note 1)	C <sub>J</sub>	110						70					pF
Typical Thermal Resistance	R <sub>θJA</sub>	65											°C/W
Operating Temperature Range	T <sub>J</sub>	-55 to+150											°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150											°C

Note:

1. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C



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Fig. 1 Forward Current Derating Curve

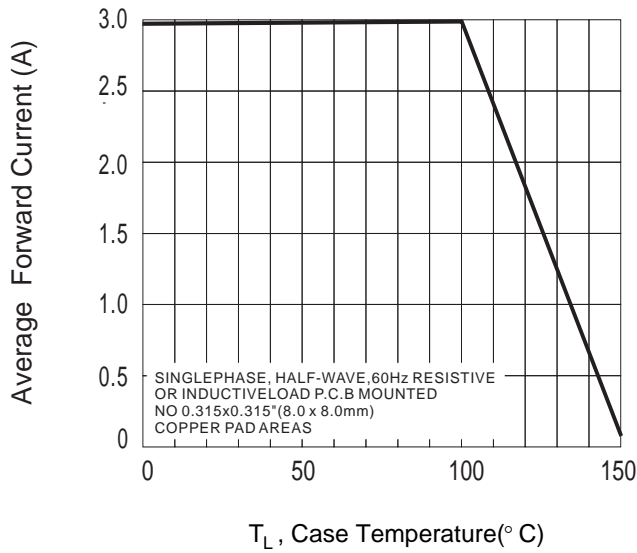


Fig. 2 Typ. Forward Characteristics

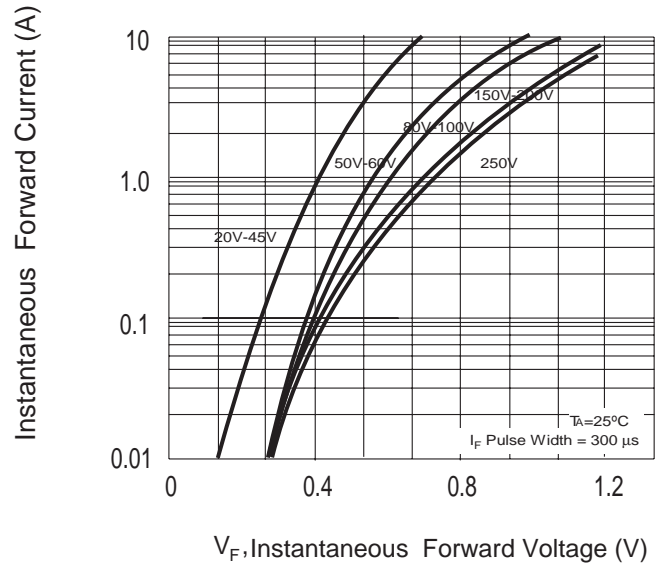


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

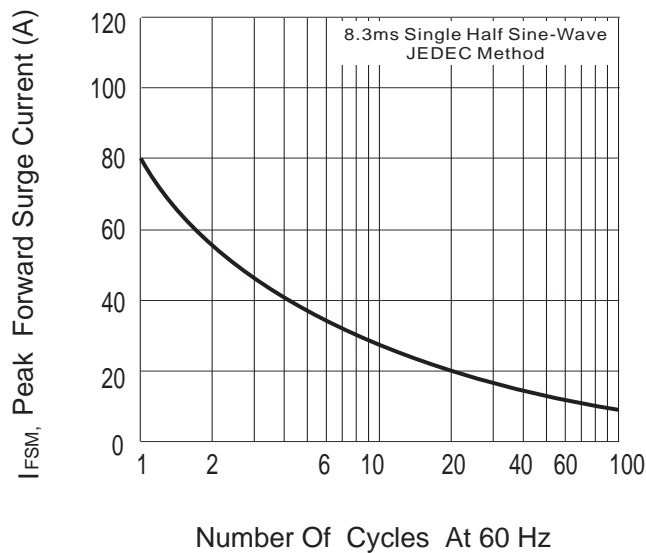


Fig.4 Typical Reverse Characteristics

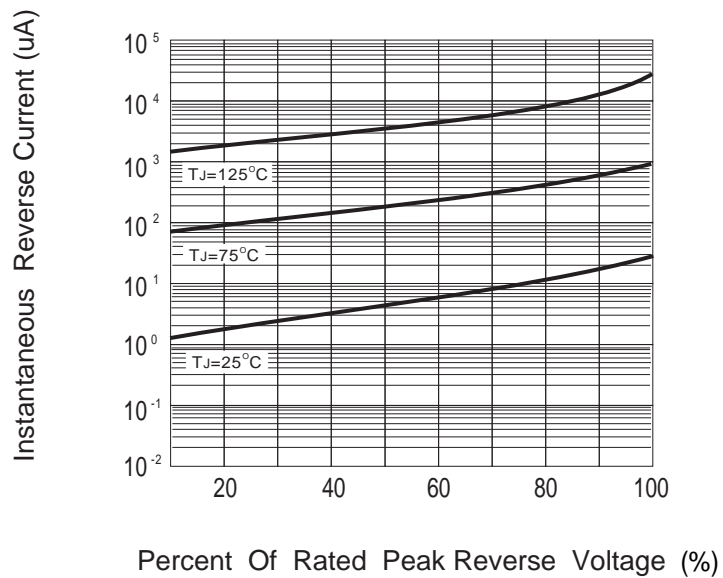
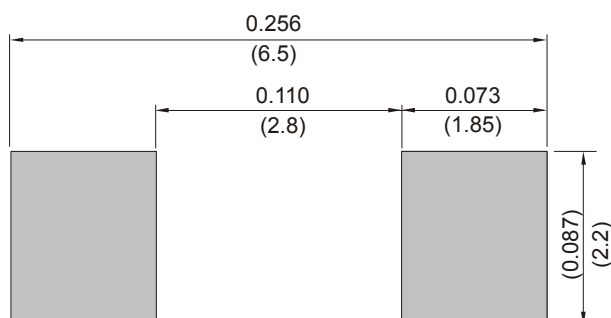


Fig.5 Mounting PAD Layout





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