SK34FL THRU SK320FL

3.0 AMP Surface Mount Schottky Barrier Rectifiers

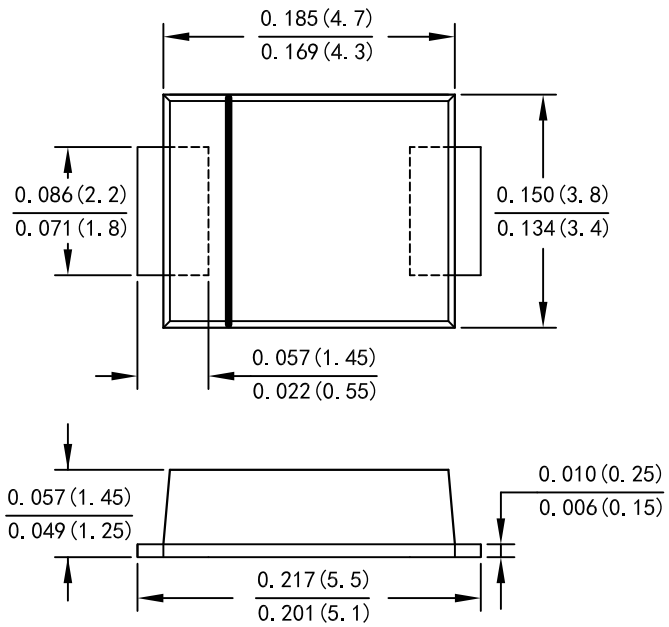
Features

- High current capacity,low V_F
- 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 dentes cathode end
- Mounting Position: Any
- Making: Type Number

Case: SMBF



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25℃ 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 34FL	SK 345FL	SK 35FL	SK 36FL	SK 38FL	SK 310FL	SK 315FL	SK 320FL	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	40	45	50	60	80	100	150	200	V
Maximum RMS Voltage	V_{RMS}	28	31	35	42	56	70	105	140	V
Maximum DC Blocking Voltage	V_{DC}	40	45	50	60	80	100	150	200	V
Average Rectified Output Current @T_L =100℃	IF(AV)	3.0								A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	80								A
I^2t Rating for Fusing (t < 8.3ms)	I^2t	26.56								A^2s
Forward Voltage @IF=3.0A	V_{FM}	0.45			0.5	0.60		0.85		V
Peak Reverse Current @T_A =25℃	I_R	0.1				0.05				mA
At Rated DC Blocking Voltage @T_A =100℃		10				5				
Typical Junction Capacitance (Note 1)	C_J	12								pF
Typical Thermal Resistance per leg	$R_{\theta JL}$	18								℃/W
Operating Temperature Range	T_J	-55 to+150								℃
Storage Temperature Range	T_{STG}	-55 to +150								℃

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

Fig. 1 Forward Current Derating Curve

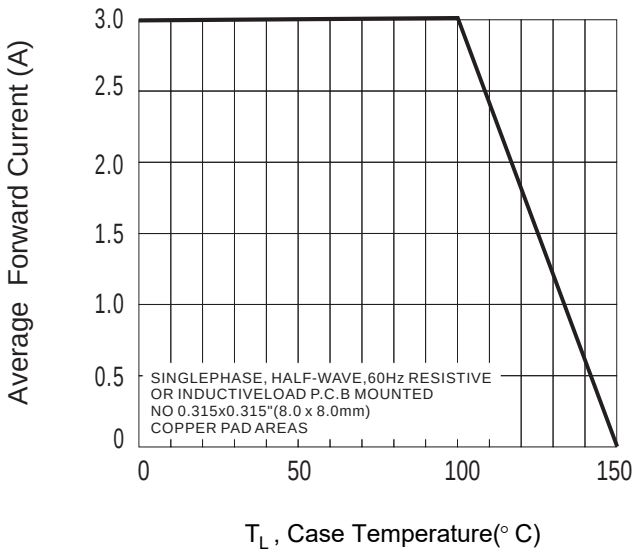


Fig. 2 Typ. Forward Characteristics

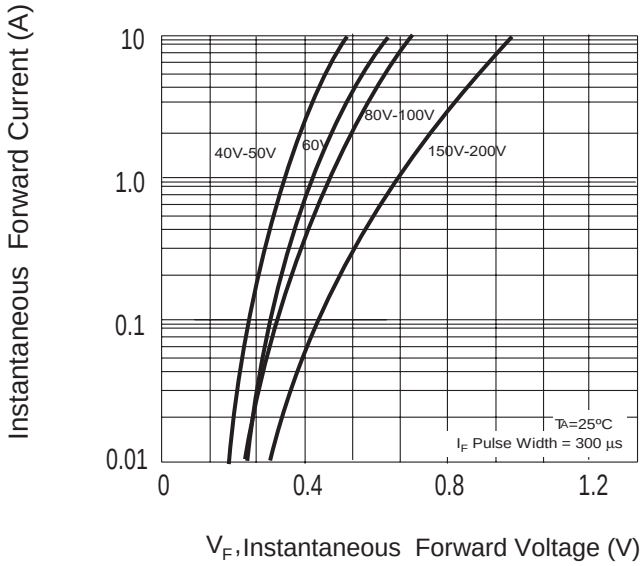


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

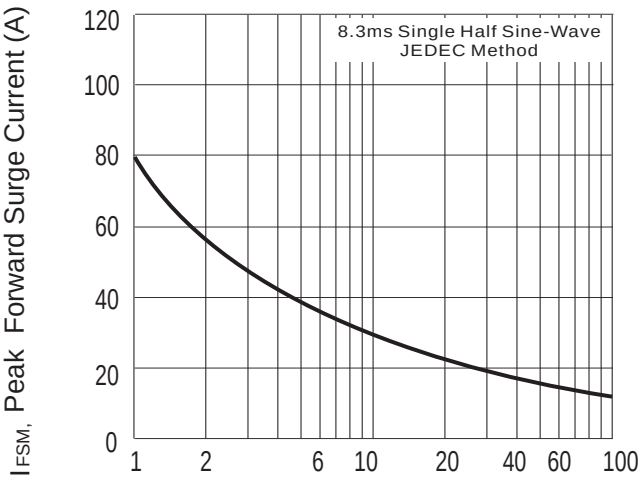


Fig.4 Typical Reverse Chracteristics

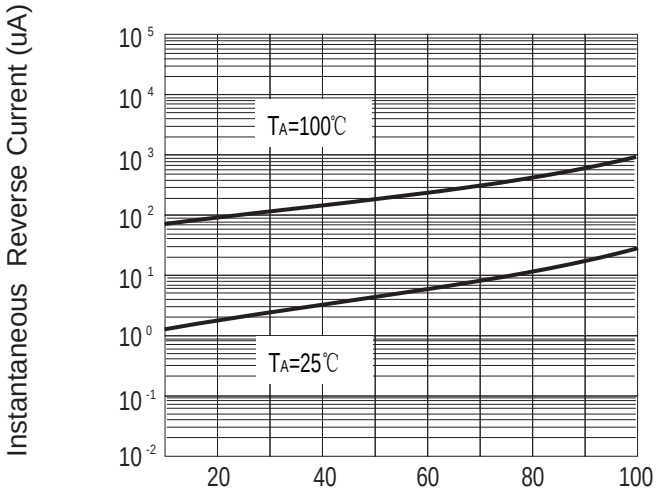
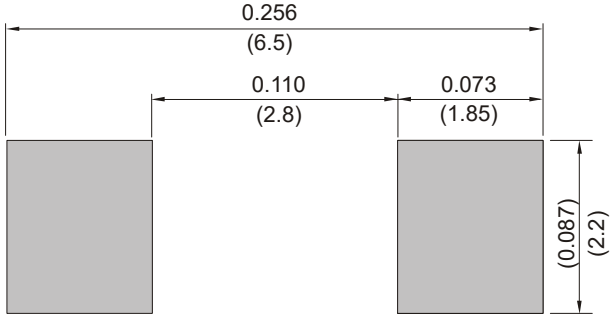


Fig.5 Mounting PAD Layout



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