



# SK34L THRU SK320L

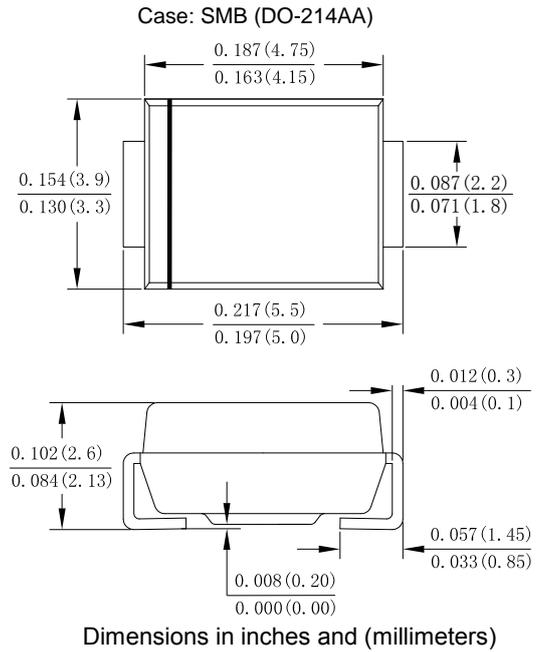
## 3.0 AMP Surface Mount Schottky Barrier Rectifiers

### 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 SMB
- Terminals: Plated leads solderable per MIL-STD-750, Method 2026 guaranteed
- Polarity: Color band denotes 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	SK34L	SK345L	SK35L	SK36L	SK38L	SK310L	SK315L	SK320L	Unit
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	40	45	50	60	80	100	150	200	V
Maximum RMS Voltage	$V_{RMS}$	28	32	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 @ $T_L = 90^\circ\text{C}$	$I_{F(AV)}$	3.0								A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	80								A
Forward Voltage @ $I_F = 3.0\text{A}$ (Note 1)	$V_{FM}$	0.45		0.5		0.6		0.85		V
Peak Reverse Current @ $T_A = 25^\circ\text{C}$	$I_R$	0.2				0.05				mA
At Rated DC Blocking Voltage @ $T_A = 100^\circ\text{C}$		10				5				mA
$I^2t$ Rating for fusing ( $t < 8.3\text{ms}$ )	$I^2t$	26.56								A <sup>2</sup> s
Typical Junction Capacitance (Note 2)	$C_J$	400				300				pF
Typical Thermal Resistance (Note 3)	$R_{\theta JA}$	75								$^\circ\text{C}/\text{W}$
Operating Temperature Range	$T_J$	-55 to +150								$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	-55 to +150								$^\circ\text{C}$

Note:

1. Pulse Test with  $PW = 300\mu\text{sec}$ , 1% Duty Cycle.
2. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C
3. Thermal Resistance from Junction to lead mounted on P.C.B. with 0.3" x 0.3" (8.0 mm x 8.0 mm) copper pad areas.



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Fig. 1 Forward Current Derating Curve

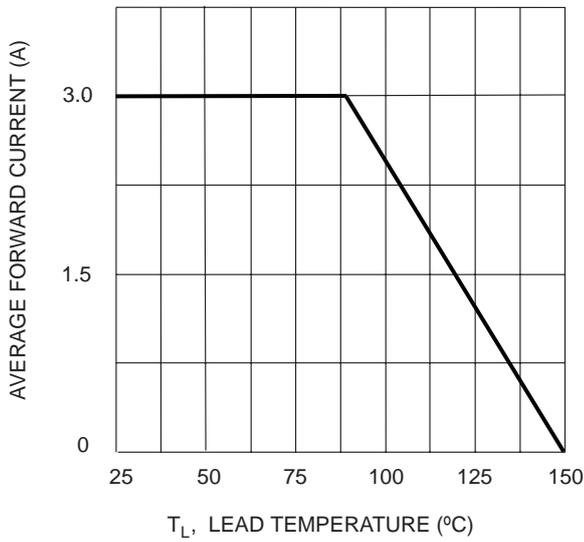


Fig. 2 Typ. Forward Characteristics

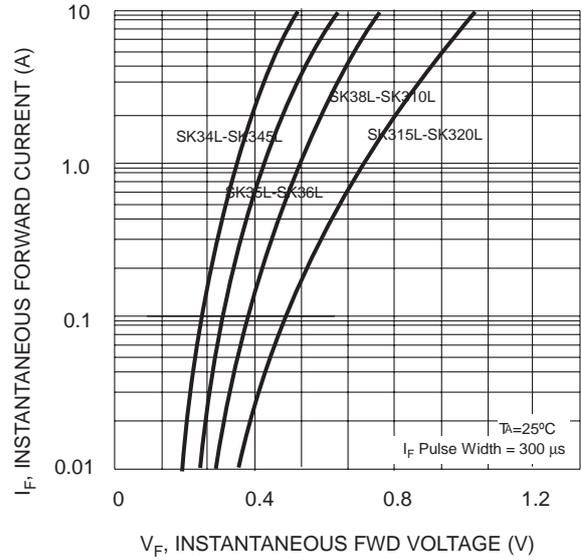


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

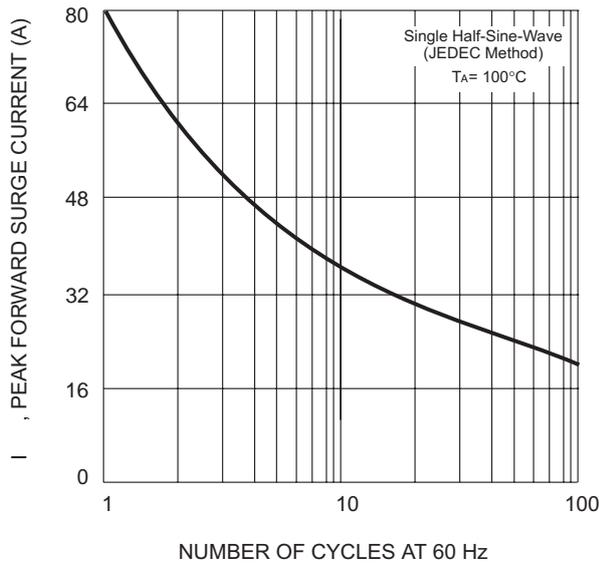


FIG.4 TYPICAL REVERSE CHARACTERISTIC

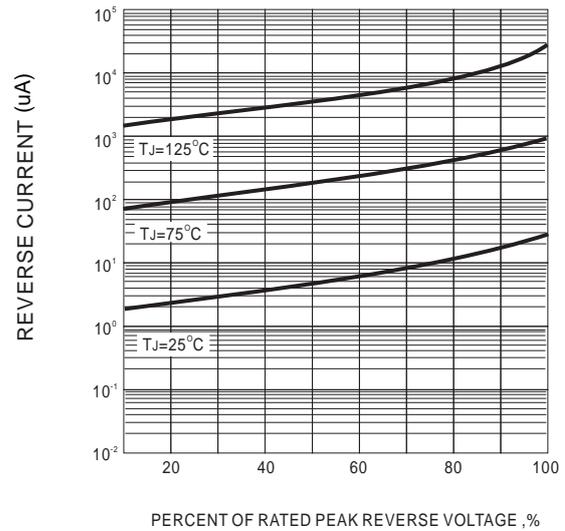
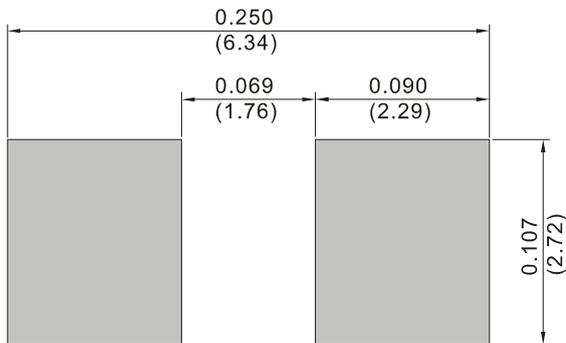


FIG.5 MOUNTING PAD LAYOUT





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