



SK34L THRU SK320L

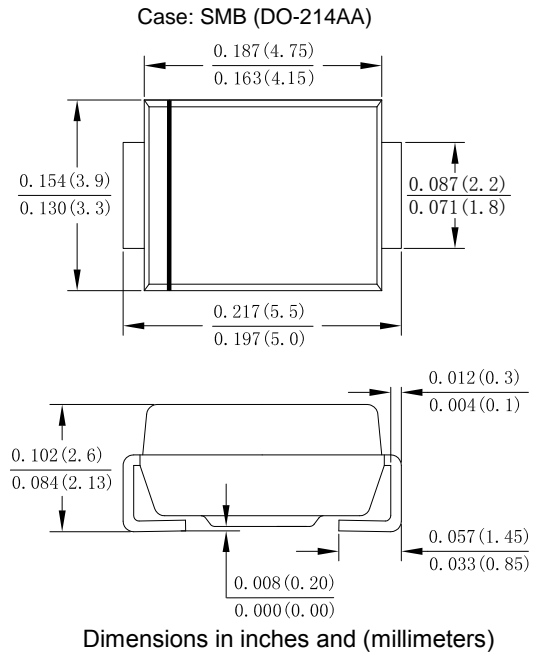
3.0 AMP Surface Mount Schottky Barrier Rectifiers

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 @ $T_L = 90^\circ C$	$I_{F(AV)}$	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 @ $I_F = 3.0A$ (Note 1)	V_{FM}	0.45		0.5		0.6		0.85		V
Peak Reverse Current @ $T_A = 25^\circ C$	I_R	0.2				0.05				mA
At Rated DC Blocking Voltage @ $T_A = 100^\circ C$		10				5				mA
I^2t Rating for fusing ($t < 8.3ms$)	I^2t	26.56								A ² s
Typical Junction Capacitance (Note 2)	C_J	400				300				pF
Typical Thermal Resistance (Note 3)	$R_{\theta JA}$	75								°C/W
Operating Temperature Range	T_J	-55 to +150								°C
Storage Temperature Range	T_{STG}	-55 to +150								°C

Note:

1. Pulse Test with $PW = 300\mu sec$, 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

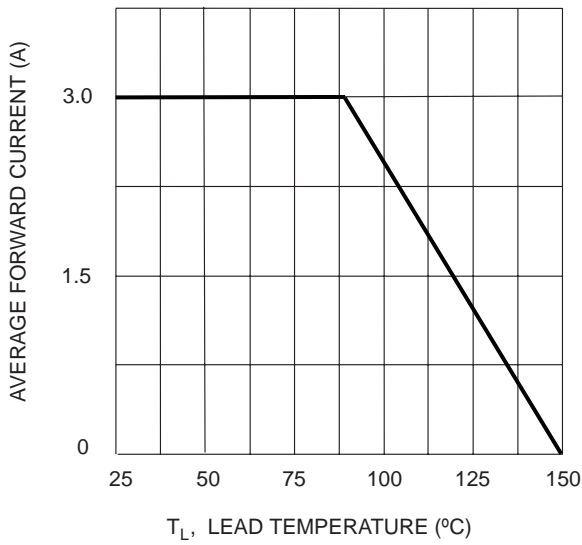


Fig. 2 Typ. Forward Characteristics

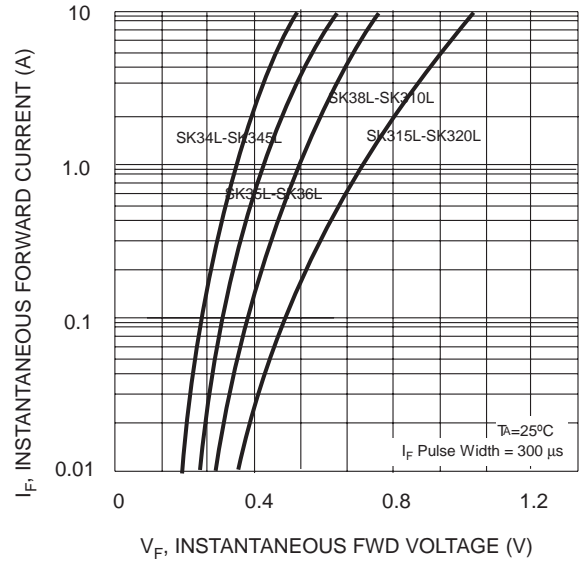


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

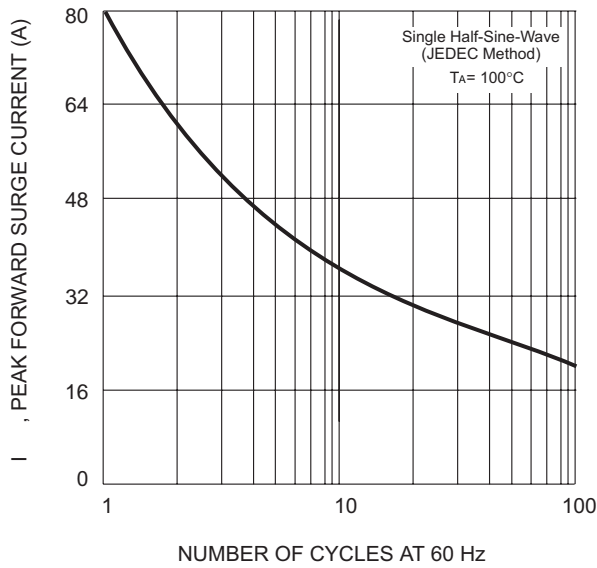


FIG.4 TYPICAL REVERSE CHARACTERISTIC

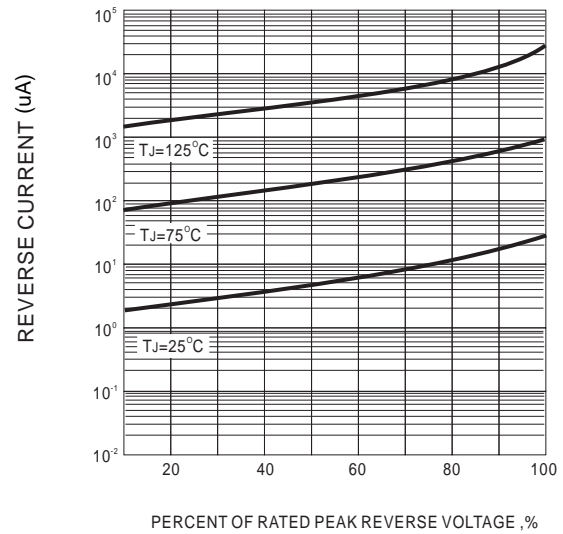
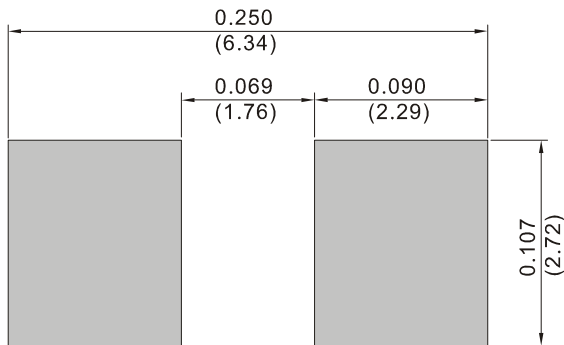


FIG.5 MOUNTING PAD LAYOUT





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