



SK34L THRU SK320L

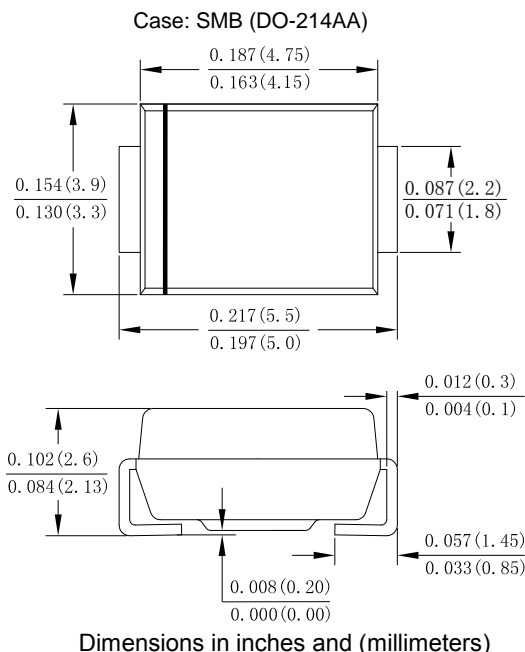
3.0 AMP Surface Mount Schottky Barrier Rectifiers

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
- Marking: 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 °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 @IF=3.0A (Note 1)	V _{FM}	0.45	0.5		0.6		0.85		V	
Peak Reverse Current @T _A =25 °C	I _R	0.2			0.05			mA		
At Rated DC Blocking Voltage @T _A =100 °C		10			5			mA		
I ² t Rating for fusing (t <8.3ms)	I ² t	26.56								A ² s
Typical Junction Capacitance (Note 2)	C _J	400			300			pF		
Typical Thermal Resistance	R _{θJA}	85								°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 $PW = 300\mu\text{sec}$, 1% Duty Cycle.
2. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C



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Fig. 1 Forward Current Derating Curve

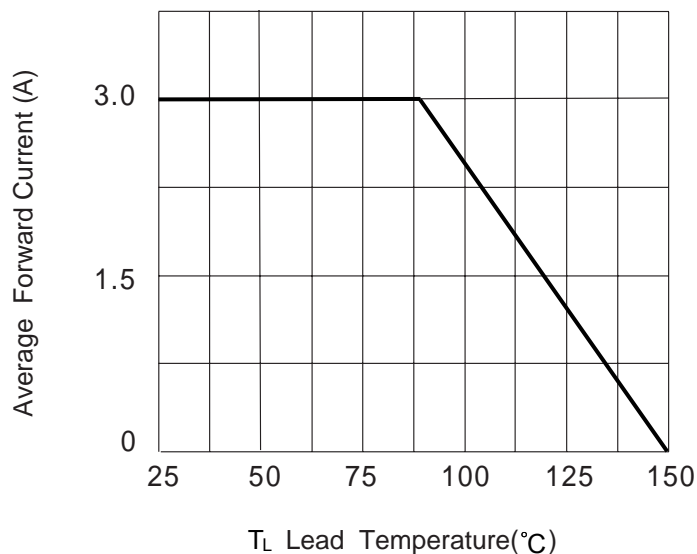


Fig. 2 Typ. Forward Characteristics

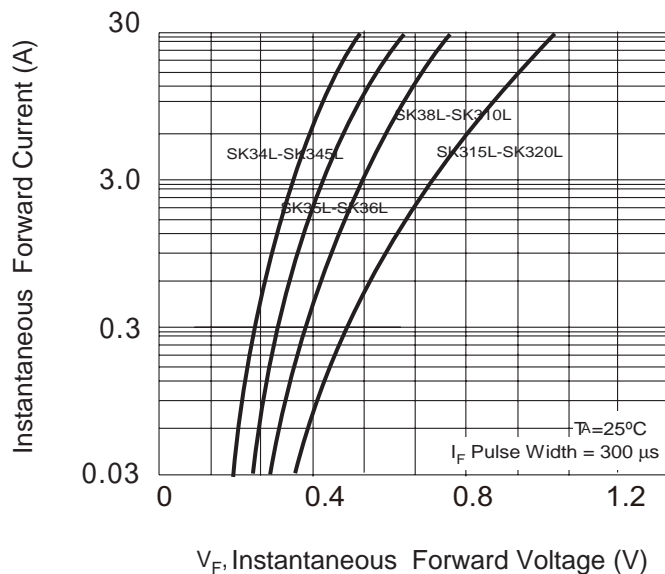


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

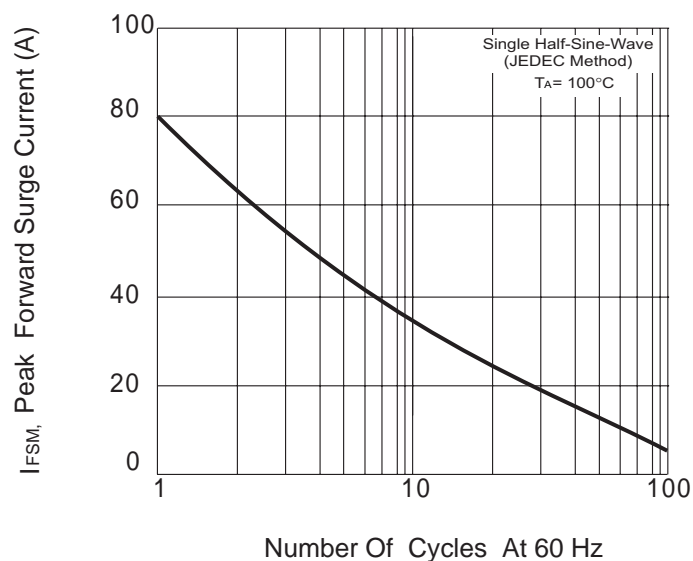


Fig.4 Typical Reverse Characteristics

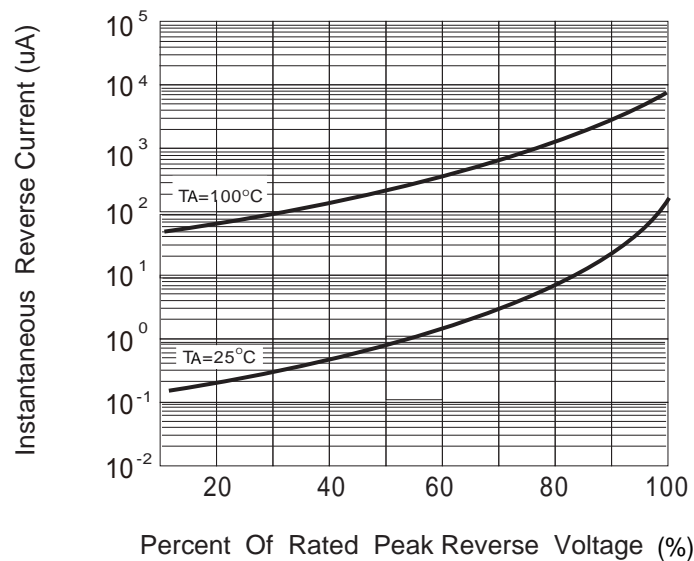
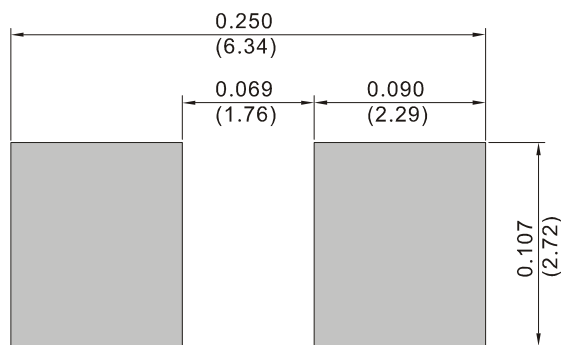


Fig.5 Mounting PAD Layout





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