

# SK34L THRU SK320L

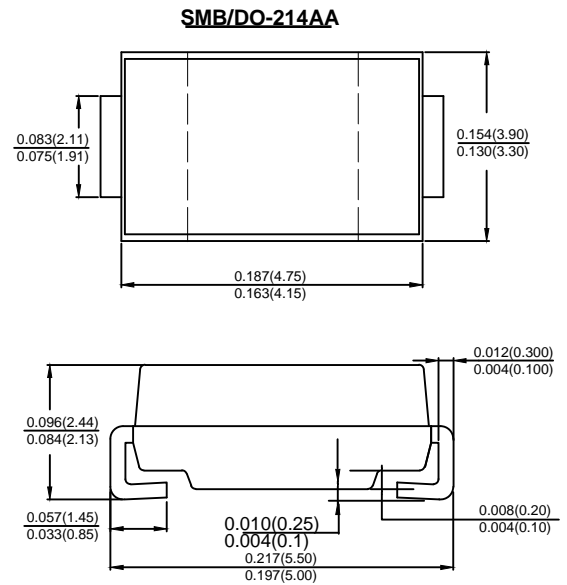
## 3.0 AMP SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

### 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	SK 34L	SK 345L	SK 35L	SK 36L	SK 38L	SK 310L	SK 315L	SK 320L	Unit
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	40	60	60	60	80	100	150	200	V
Maximum RMS Voltage	$V_{RMS}$	28	42	42	42	56	70	105	140	V
Maximum DC Blocking Voltage	$V_{DC}$	40	60	60	60	80	100	150	200	V
Average Rectified Output Current @ $T_L = 90^\circ C$	$I_o$	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 @ $I_F = 3.0A$	$V_{FM}$	0.45		0.5		0.75		0.85		V
Peak Reverse Current @ $T_A = 25^\circ C$	$I_R$	0.1				0.05				mA
At Rated DC Blocking Voltage @ $T_A = 100^\circ C$		10				5				mA
Typical Junction Capacitance (Note 2)	$C_J$	12								pF
Typical Thermal Resistance per leg (Note 2)	$R_{\theta JA}$	75								$^\circ C/W$
Operating Temperature Range	$T_J$	-55 to +150								$^\circ C$
Storage Temperature Range	$T_{STG}$	-55 to +150								$^\circ C$

Note: 1. Pulse Test with  $PW = 300\mu sec$ , 1% Duty Cycle.

2. Mounted on P.C. Board with 5.0 mm<sup>2</sup> (0.13mm thick) copper pad areas.

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Fig. 1 Forward Current Derating Curve

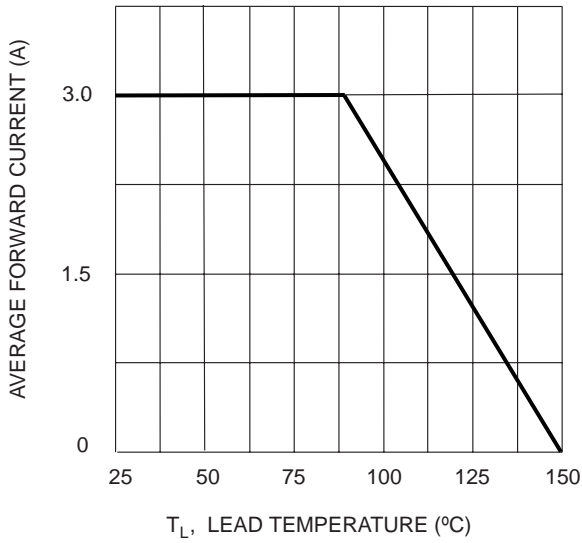


Fig. 2 Typ. Forward Characteristics

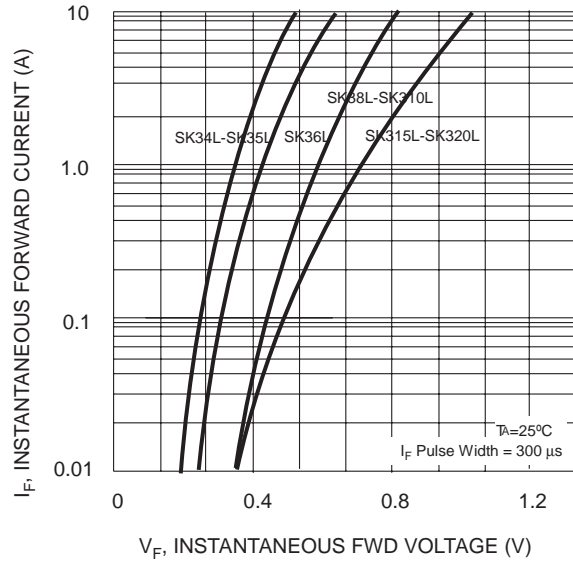


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

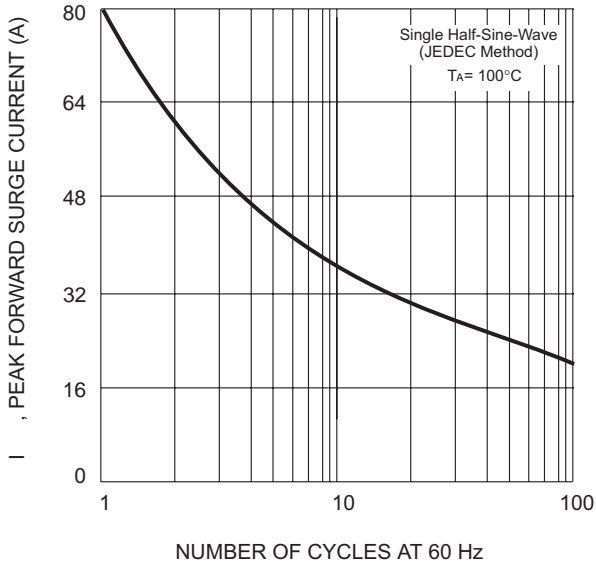


FIG.4 TYPICAL REVERSE CHARACTERISTIC

