

SK34L THRU SK320L

3.0 AMP SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

Features

- High current capacity, low VF
- 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 dentes 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%

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SYMBOL	SK 34L	SK 345L	SK 35L	SK 36L	SK 38L	SK 310L	SK 315L	SK 320L	Unit
VRRM	40	45	50	60	80	100	150	200	V
VRMS	28	32	35	42	56	70	105	140	V
VDC	40	45	50	60	80	100	150	200	V
lf(AV)	3.0							А	
Ifsm	80							А	
VFM	0.45			0.5	0.75	;	0.8	5	V
0.2 0.05								mA	
IR	10			5					mΑ
l ² t	26.56								A ² s
С	250								pF
R0 JA	75								°C /W
TJ	-55 to+150							°C	
Тѕтс	-55 to +150								°C
	SYMBOL VRRM VRMS VDC IF(AV) IFSM VFM IR I ² t CJ R0 JA TJ TSTG	SYMBOL SK 34L VRM 40 VRMS 28 VDC 40 IF(AV) 40 IF(AV) 40 IF(AV) 40 IF(AV) 0.45 IR	SYMBOL SK 34L SK 345L VRM 40 45 VRMS 28 32 VDC 40 45 IF(AV) 40 45 IF(AV) 40 45 IF(AV) 0.45 0 IFSM 0.45 0 IFSM 0.45 0 IR 0 1 I ² t 0 1 CJ 0 1 TJ 1 1 TJ 1 1	$\begin{array}{c c c c c c c } SYMBOL & SK & SK & 345L & 35L \\ \hline VRM & 40 & 45 & 50 \\ \hline VRM & 28 & 32 & 35 \\ \hline VDC & 40 & 45 & 50 \\ \hline VDC & 40 & 45 & 50 \\ \hline IF(AV) & & & & & \\ \hline IF(AV) & & & & & & \\ \hline IF(AV) & & & & & & \\ \hline IFSM & & & & & & & \\ \hline IFSM & & & & & & & \\ \hline IFSM & & & & & & & \\ \hline IFSM & & & & & & & & \\ \hline IFSM & & & & & & & & \\ \hline IFSM & & & & & & & & \\ \hline IFSM & & & & & & & & \\ \hline IF(AV) & & & & & & & & \\ \hline IF(AV) & & & & & & \\ \hline IF(AV) & & & & & & & \\ \hline IF(AV) & & & & & & & \\ \hline IF(AV) & & & & & & & \\ \hline IF(AV) & & & & & & & \\ \hline IF(AV) & & & & & & & \\ \hline IF(AV) & & & & & & & \\ \hline IF(AV) & & & & & & & \\ \hline IF(AV) & & & & & & & \\ \hline IF(AV) & & & & & & & \\ \hline IF(AV) & & & & & & & \\ \hline IF(AV) & & & & & & & \\ \hline IF(AV) & & & & & & & \\ \hline IF(AV) & & & & & & & \\ \hline IF(AV) & & & & & & & \\ \hline IF(AV) & & & & & & & \\ \hline IF(AV) & & & & & & \\ \hline IF(AV) & & & & & & \\ \hline IF(AV) & & & & & & \\ \hline IF(AV) & & & & & & \\ \hline IF(AV) & & & & & & \\ \hline IF(AV) & & & & & & & \\ \hline IF(AV) & & & & & & \\ \hline IF(AV) & & & & & & \\ \hline IF(AV) & & & & & & \\ \hline IF(AV) & & & & & \\ \hline IF(AV) & & & & \\ \hline IF(AV) & & & & \\ \hline IF(AV) & & & & \\ \hline IF(AV) & & & & \\ \hline IF(AV) & & & & $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

Note: 1.Pulse Test with PW=300usec,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. 3 Max Non-Repetitive Peak Fwd Surge Current



NUMBER OF CYCLES AT 60 Hz

FIG.5 MOUNTING PAD LAYOUT



FIG.4TYPICALREVERSE CHRACTERISTIC



PERCENT OF RATED PEAK REVERSE VOLTAGE ,%



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