

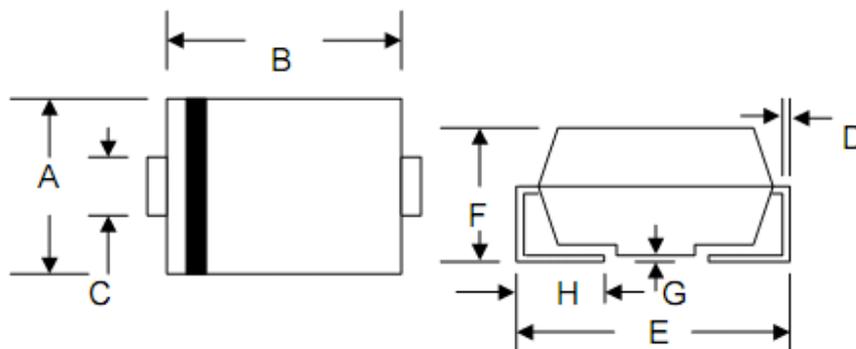
SK32 THRU SK310 SCHOTTKY RECTIFIER

Features:

- Schottky Barrier Chip
- Ideally Suited for Automatic Assembly
- Low Power Loss, High Efficiency
- For Use in Low Voltage Application
- Guard ring Die Construction
- Plastic Case Material has UL Flammability Classification Rating 94V-0
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Mechanical Data:

- Case: Low Profile Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Weight: 0.21 grams (approx.)

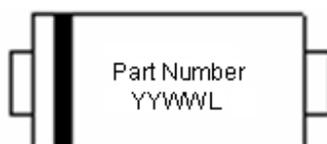
Mechanical Dimensions: In mm / Inches


SMC/DO-214AB				
Dim	Min	Max	Min	Max
A	5.59	6.22	0.220	0.245
B	6.60	7.11	0.260	0.280
C	2.75	3.25	0.108	0.128
D	0.15	0.31	0.006	0.012
E	7.75	8.13	0.305	0.320
F	2.00	2.62	0.079	0.103
G	0.05	0.20	0.002	0.008
H	0.76	1.27	0.030	0.050
	In mm		In inch	

SMC

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Marking Diagram:



First row: Part Number (SK32, SK33, SK34, SK35, SK36, SK38, SK39, SK310)

Second row: YYWWL

YY is the manufacture year, WW is the manufacture week code, L is the wafer's Lot Number

Ordering Information:

Device	Package	Shipping
SK32 SK33 SK34 SK35 SK36 SK38 SK39 SK310	SMC (Pb-Free)	3000pcs / reel

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification.



SK32 THRU SK310

Technical Data
Data Sheet N0101, Rev. -

Green products

Maximum Ratings and Electrical characteristics @ $T_A = 25^\circ\text{C}$ unless otherwise specified

Characteristic	Symbol	SK32	SK33	SK34	SK35	SK36	SK38	SK39	SK310	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	20	30	40	50	60	80	90	100	V
Maximum RMS voltage	V_{RMS}	14	21	28	35	42	56	64	71	V
Average Rectified Output Current @ $T_L = 75^\circ\text{C}$	I_O	3.0								A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	100								A
Forward Voltage @ $I_F = 3.0\text{ A}$	V_F	0.55		0.75		0.85				V
Peak Reverse Current @ $T_A = 25^\circ\text{C}$ At Rated DC Blocking Voltage @ $T_A = 100^\circ\text{C}$	I_{RM}	0.5 20								mA
Typical Thermal Resistance Junction to Ambient (Note 1)	$R_{\theta JA}$	55								$^\circ\text{C/W}$
Operating Temperature Range	T_J	-65 to +125								$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-65 to +150								$^\circ\text{C}$

Note: 1. Mounted on P.C. Board with 14mm² copper pad areas.

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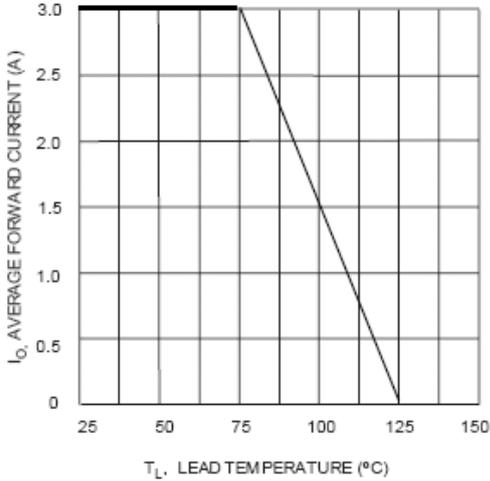


Fig. 1 Forward Current Derating Curve

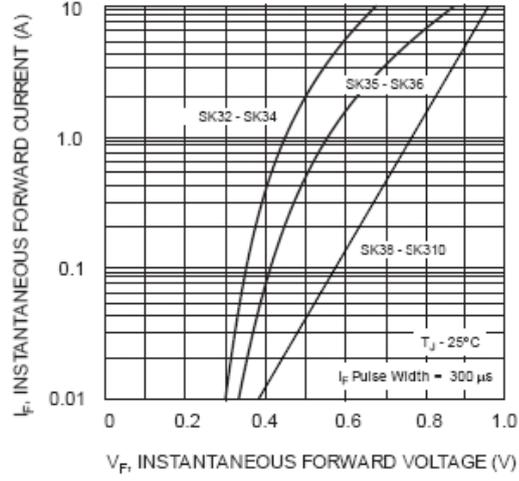


Fig. 2 Typical Forward Characteristics

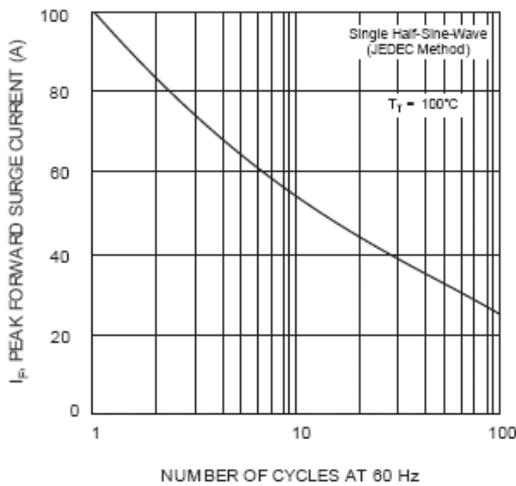


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

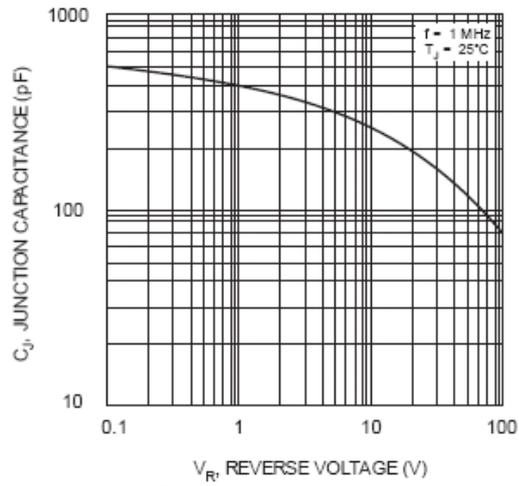


Fig. 4 Typical Junction Capacitance

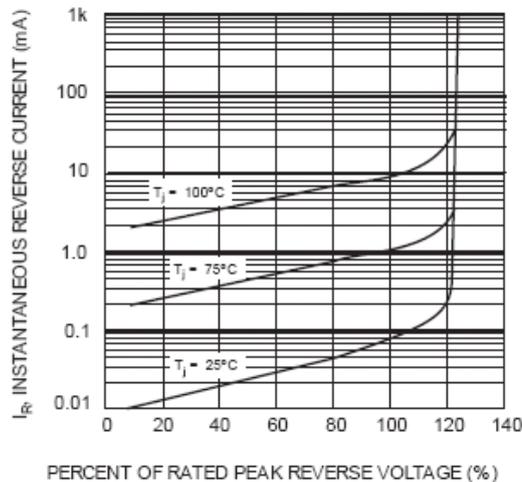


Fig. 5 Typical Reverse Characteristics

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