

SK32 THRU SK310 SCHOTTKY RECTIFIER

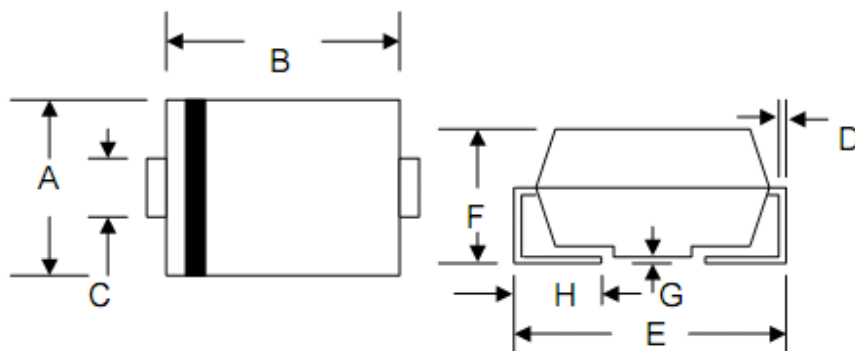
Features:

- 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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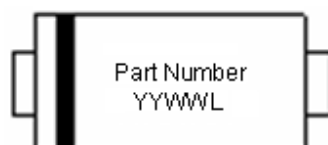


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Technical Data
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Marking Diagram:



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.



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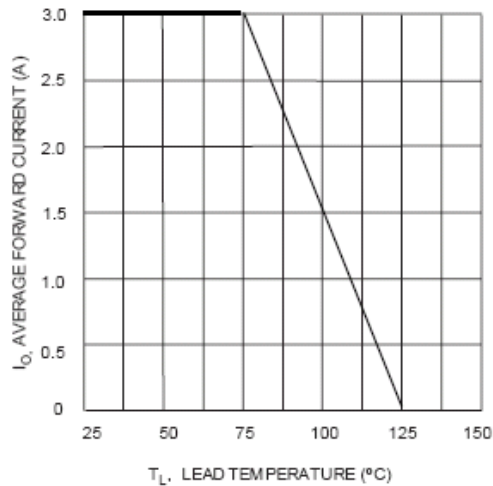
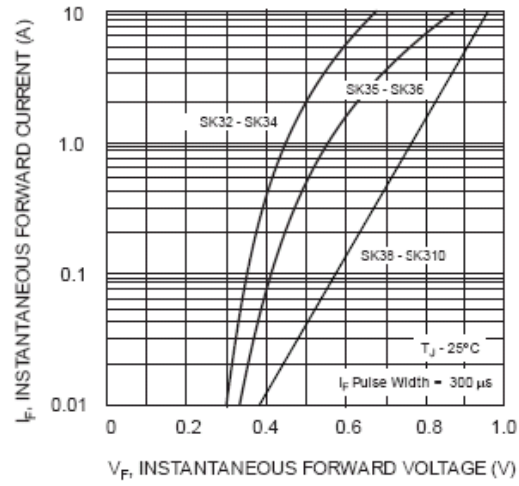
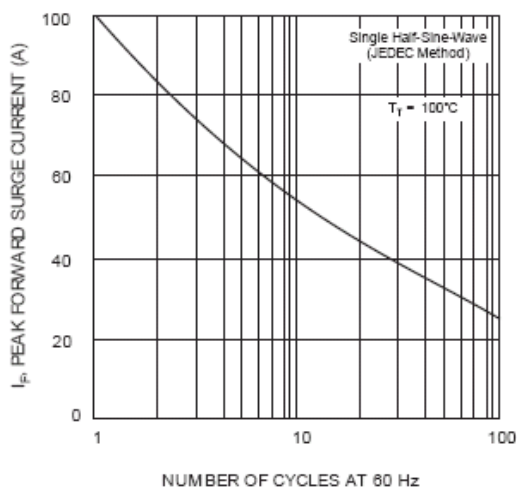
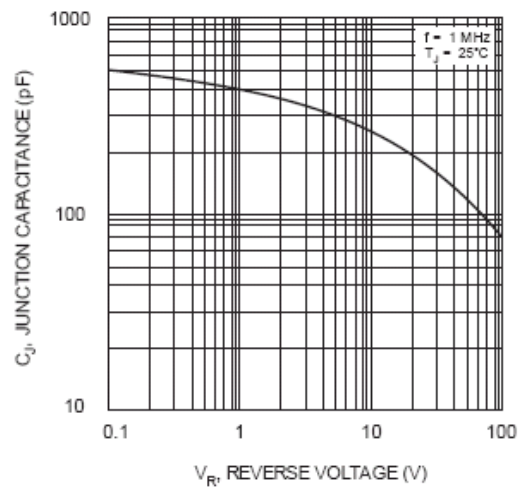
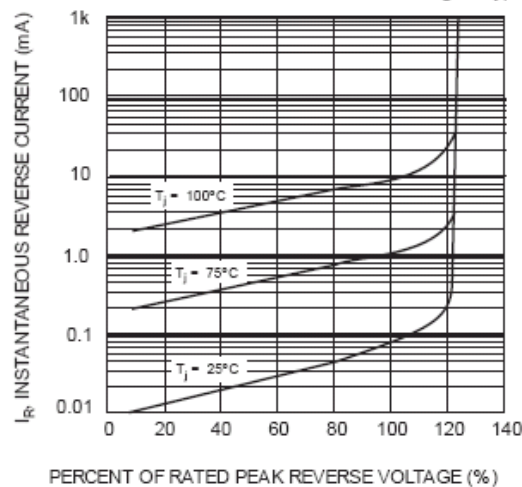
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Maximum Ratings and Electrical characteristics @T_A = 25°C unless otherwise specified

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°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 A	V _F	0.55			0.75		0.85			V
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 100°C	I _{RM}	0.5 20								mA
Typical Thermal Resistance Junction to Ambient (Note 1)	R _{θJA}	55								°C/W
Operating Temperature Range	T _J	-65 to +125								°C
Storage Temperature Range	T _{STG}	-65 to +150								°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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