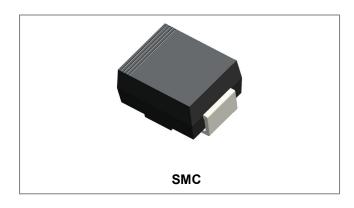


SK32 THRU SK36

RoHS

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SK32 THRU SK36 SCHOTTKY RECTIFIER



Features

- Schottky Barrier Chip
- Guard Ring Die Construction for Transient Protection
- High Current Capability
- Low Power Loss, High Efficiency
- High Surge Current Capability
- For Use in Low Voltage, High Frequency Inventers, Free Wheeling, and Polarity Protection Applications
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Mechanical Data

- Case: Low Profile Molded plastic
- Terminals: Plated leads solderable per MIL-STD-750, Method 2026 guaranteed
- Polarity: Color band or cathode Notch
- Mounting Position: Any
- Weight: 0.21grams(approx)

Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

Characteristic	Symbol	SK32	SK33	SK35	SK36	Units
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	20	30	50	60	V
Maximum RMS voltage	VRMS	14	21	35	42	V
Average Rectified Output Current @T _L = 75°C	lo		3.0	0		A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	100			A	
Forward Voltage * @ I _F = 3.0 A	VF	0.	55	0.75	5	V
Peak Reverse Current* $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$	I _{RM}	0.5 20			mA	
Max. junction capacitance (Note 1)	CJ	1	50	250	D	pF
Typical Thermal Resistance Junction to Ambient (Note 2)	R _{θJA}	55			°C/W	
Operating Temperature Range	TJ		-65 to	+125		°C
Storage Temperature Range	T _{STG}		-65 to	+150		°C

* Pulse width < 300 µs, duty cycle < 2%

Note: 1. Measured at 1MHz and applied reverse voltage of 5.0V D.C.

2. mounted on P.C. Board with 5.0mm² copper pad areas.

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Circuit Diagram





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Ratings and Characteristics Curves

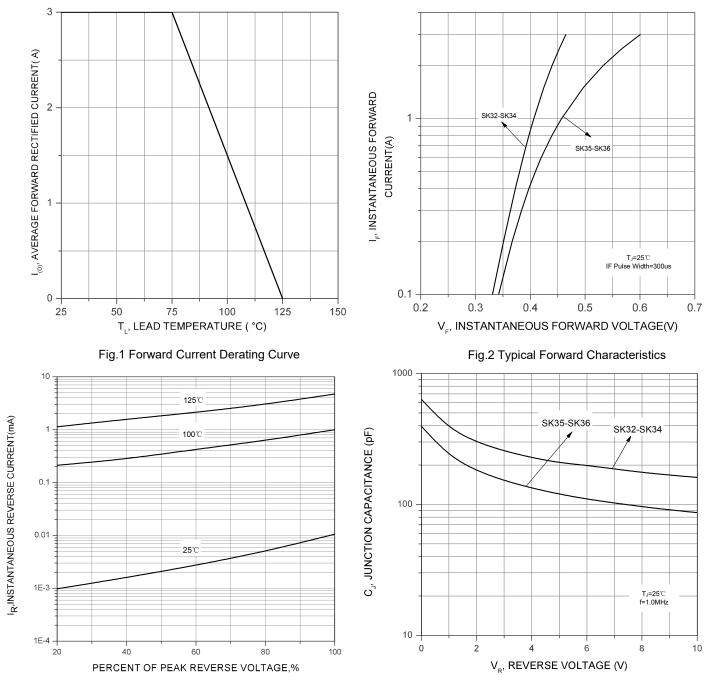


Fig.3 Typical Reverse Characteristics

Fig.4 Typical Junction Capacitance

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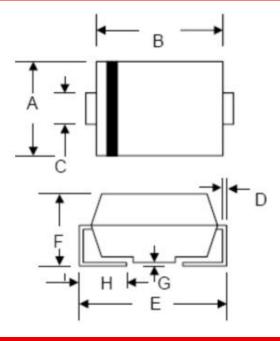


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Mechanical Dimensions SMC



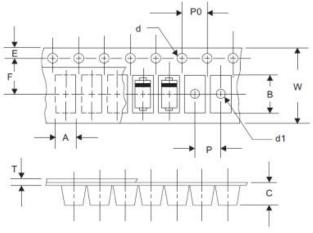
		neters	Inches		
SYMBOL -	Min.	Max.	Min.	Max.	
Α	5.59	6.22	0.220	0.245	
В	6.60	7.11	0.260	0.280	
С	2.75	3.25	0.108	0.128	
D	0.152	0.305	0.006	0.012	
E	7.75	8.25	0.305	0.325	
F	2.00	2.95	0.079	0.116	
G	0.051	0.203	0.002	0.008	
н	0.76	1.60	0.030	0.063	

Ordering Information

Device	Package	Shipping
SK32 THRU SK36	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.

Carrier Tape Specification SMC



SYMBOL	Millimeters			
	Min.	Max.		
A	5.95	6.15		
В	8.10	8.30		
С	2.60	2.80		
d	1.40	1.60		
E	1.65	1.85		
F	7.40	7.60		
Р	7.90	8.10		
P0	3.90	4.10		
Т	0.20	0.40		
W	15.70	16.30		

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Marking Diagram



Where XXXXX is YYWWL

First row: Part Number (SK32, SK33, SK35, SK36) Second row: YYWWL YY is the manufacture year, WW is the manufacture week code, L is the wafer's Lot Number

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