

SK32 - SK36

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

NOT RECOMMENDED FOR

NEW DESIGN, Use B3X0 Series

Features

- Guard Ring Construction for Transient Protection
- High Current Capability and Low VF
- Capable of Meeting Environmental Standards of MIL-STD-19500
- Plastic Material UL Flammability Classification 94V-0

Mechanical Data

- Case: SMC, Molded Plastic
- Moisture sensitivity: Level 1 per J-STD-020A
- Terminals: Solderable per MIL-STD-202, Method 208
- Also Available in Lead Free Plating (Matte Tin Finish). Please see Ordering Information, Note 5, on Page 3
- Polarity: Cathode Band
- Approx. Weight: 0.21 grams



SMC					
Dim	Min	Max			
Α	5.59	6.22			
В	6.60	7.11			
С	2.75	3.18			
D	0.15	0.31			
E	7.75	8.13			
G	0.10	0.21			
н	0.76	1.52			
J	2.00	2.40			
All Dimensions in mm					

Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz resistive or inductive load.

Characteristic	Symbol	SK32	SK33	SK34	SK35	SK36	Unit
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	V
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	V
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	V
Maximum Average Forward Rectified Current (See Fig. 1)	I _(AV)	3.0				А	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	100				А	
Maximum Instantaneous Forward Voltage at 3.0A (See Note 1)	VF	0.50		0.	75	V	
	I _R	0.5 20			mA		
Maximum Thermal Resistance (See Note 2)	${f R}_{ heta JL} {f R}_{ heta JA}$	10 60				°C/W	
Typical Total Capacitance (See Note 3)	CT	300				pF	
Operating and Storage Temperature Range		-65 to +150				°C	

Notes: 1. Pulse Test Pulse Width 300 μ S, Duty Cycle 2%.

2. 8.0mm² (0.13mm thick) land pads.

3. Measured at 1.0MHz and applied reverse voltage of 4.0V.



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Ordering Information (Note 4 & 5)

Device*	Packaging	Shipping
SKxx-7	SMC	3000/Tape & Reel

Notes: 4. For Packaging Details, go to our website at http://www.diodes.com/datasheets/ap02007.pdf.

* xx = Device type, e.g. 32 through 36.

5. For lead free terminal plating part number, please add "-F" suffix to part number above. Example: SK36-7-F.



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