



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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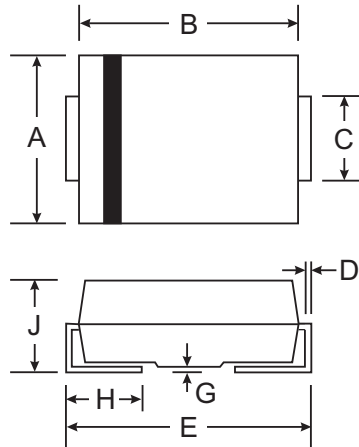
Features

- 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

NOT RECOMMENDED FOR
NEW DESIGN, Use B3X0 Series



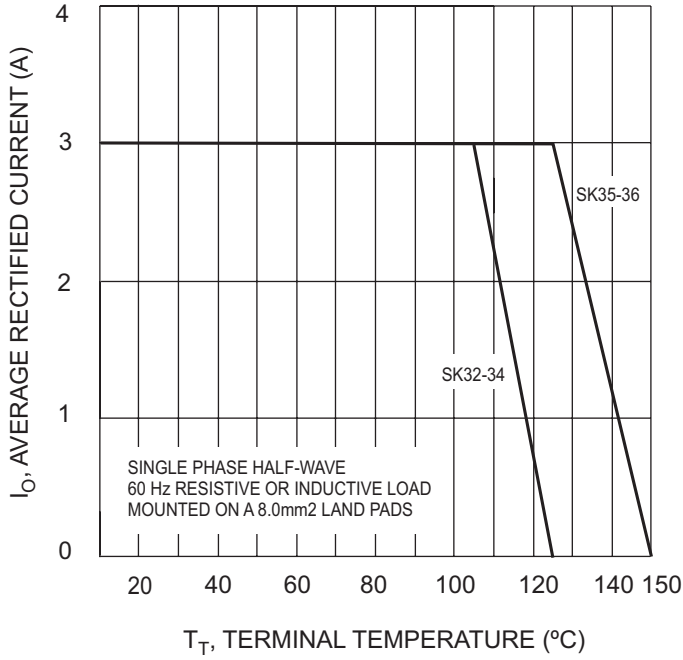
SMC		
Dim	Min	Max
A	5.59	6.22
B	6.60	7.11
C	2.75	3.18
D	0.15	0.31
E	7.75	8.13
G	0.10	0.21
H	0.76	1.52
J	2.00	2.40
All Dimensions in mm		

Maximum Ratings and Electrical Characteristics

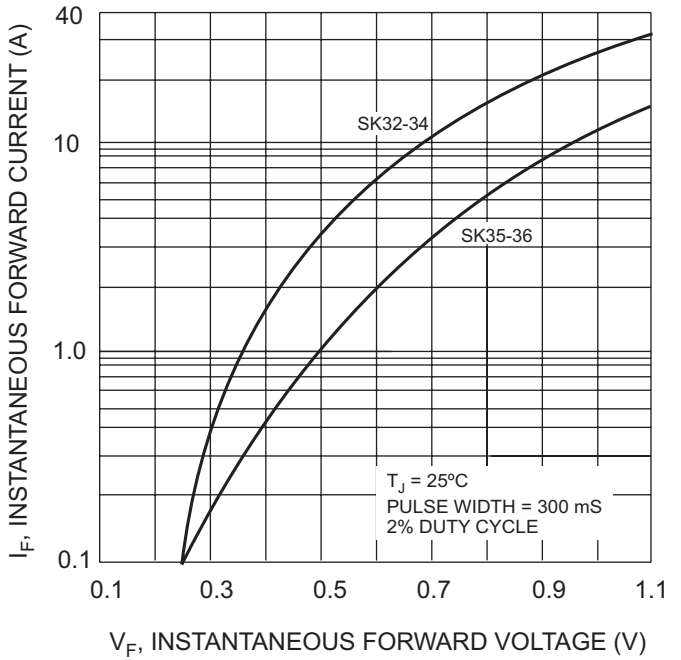
Ratings at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz resistive or inductive load.

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					A
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	100					A
Maximum Instantaneous Forward Voltage at 3.0A (See Note 1)	V_F	0.50			0.75		V
Maximum DC Reverse Current at Rated DC Blocking Voltage (See Note 1)	I_R				0.5	20	mA
Maximum Thermal Resistance (See Note 2)	$R_{\theta JL}$	10					°C/W
	$R_{\theta JA}$	60					
Typical Total Capacitance (See Note 3)	C_T	300					pF
Operating and Storage Temperature Range	T_J, T_{STG}	-65 to +150					°C

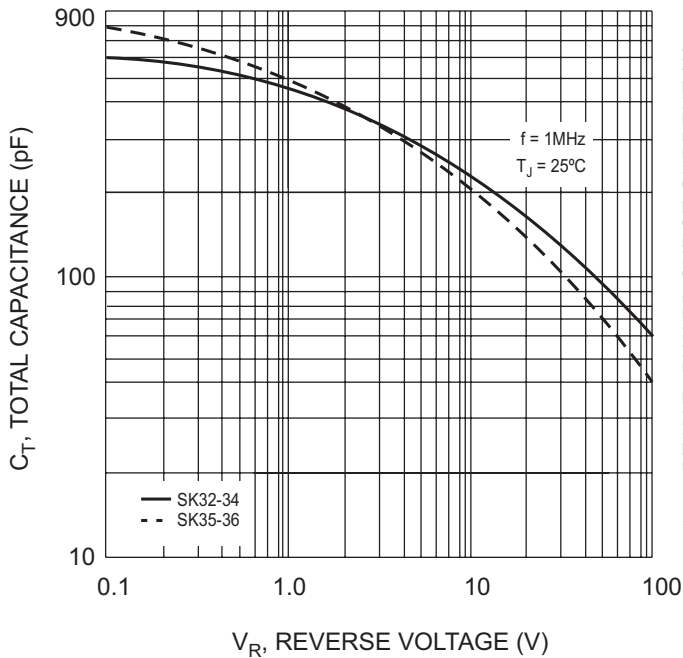
- Notes:
1. Pulse Test Pulse Width 300 μ S, Duty Cycle 2%.
 2. 8.0mm² (0.13mm thick) land pads.
 3. Measured at 1.0MHz and applied reverse voltage of 4.0V.



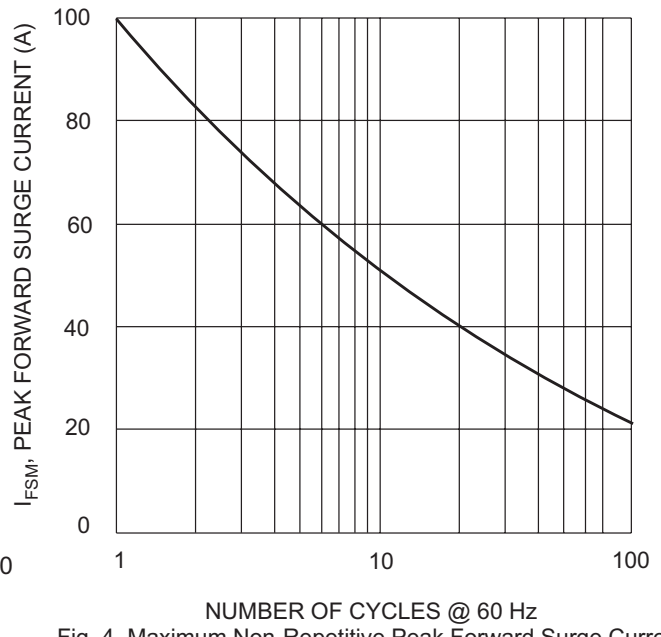
T_T , TERMINAL TEMPERATURE (°C)
Fig. 1 Forward Derating Curve



V_F , INSTANTANEOUS FORWARD VOLTAGE (V)
Fig. 2 Typical Forward Characteristics



V_R , REVERSE VOLTAGE (V)
Fig. 3 Typical Total Capacitance



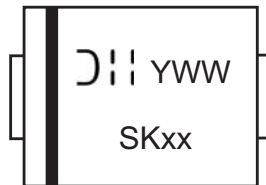
NUMBER OF CYCLES @ 60 Hz
Fig. 4 Maximum Non-Repetitive Peak Forward Surge Current

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Ordering Information (Note 4 & 5)

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

- Notes:
- For Packaging Details, go to our website at <http://www.diodes.com/datasheets/ap02007.pdf>.
 - * xx = Device type, e.g. 32 through 36.
 - For lead free terminal plating part number, please add "-F" suffix to part number above. Example: SK36-7-F.



SKxx = Product type marking code, ex: SK32
D | | = Manufacturers' code marking
YWW = Date code marking
Y = Last digit of year ex: 2 for 2002
WW = Week code 01 to 52

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