

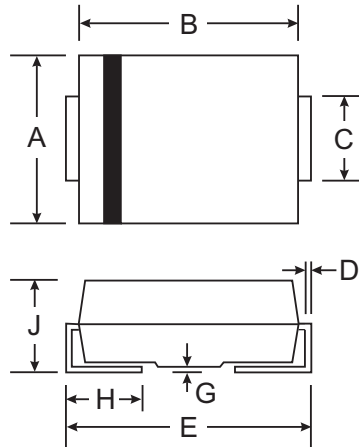
### Features

- 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



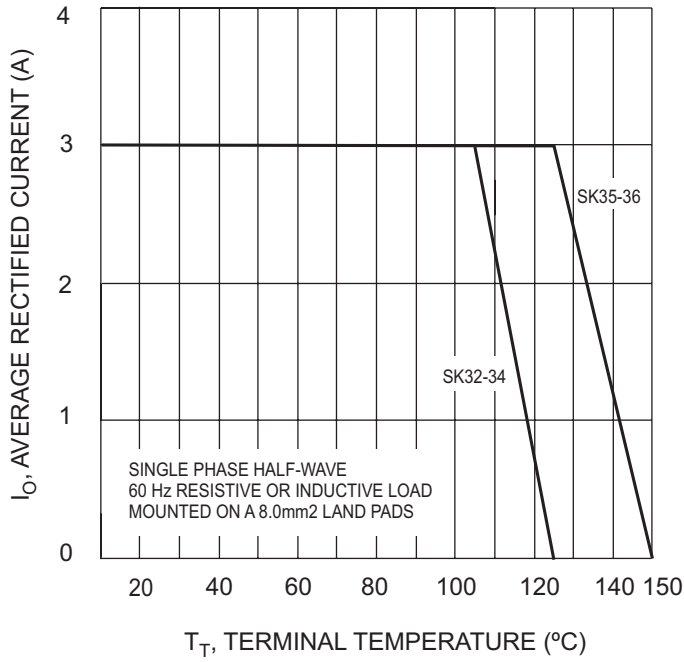
| SMC                  |      |      |
|----------------------|------|------|
| Dim                  | Min  | Max  |
| A                    | 5.59 | 6.22 |
| B                    | 6.60 | 7.11 |
| C                    | 2.75 | 3.18 |
| D                    | 0.15 | 0.31 |
| E                    | 7.75 | 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

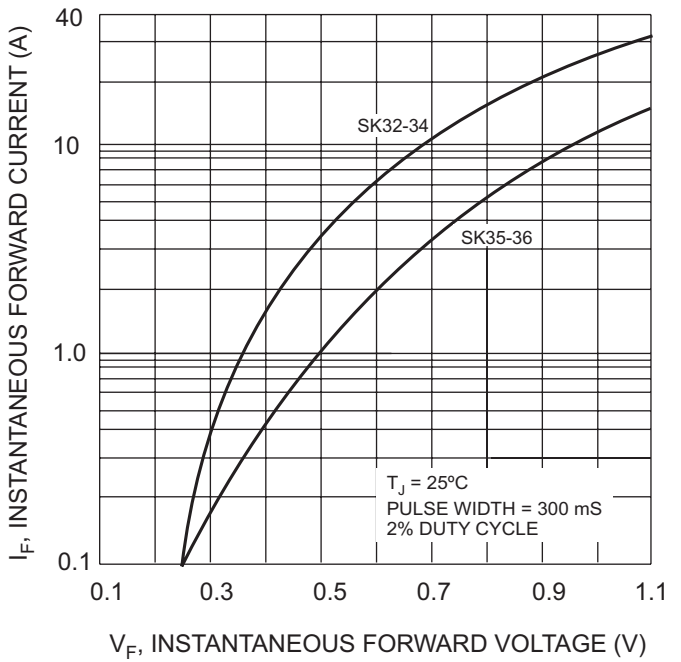
Ratings at 25°C ambient temperature unless otherwise specified.  
Single phase, half wave, 60Hz resistive or inductive load.

| 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<br>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   |

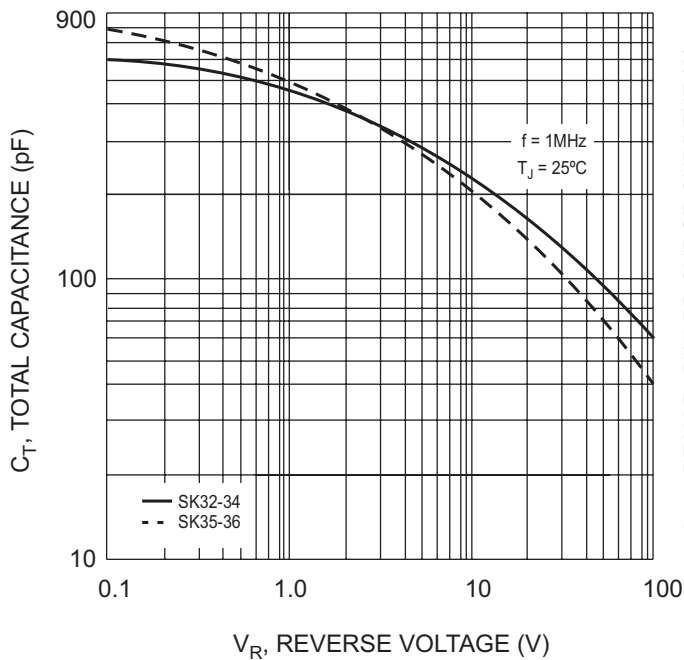
- Notes:
1. Pulse Test Pulse Width 300  $\mu$ S, Duty Cycle 2%.
  2. 8.0mm<sup>2</sup> (0.13mm thick) land pads.
  3. Measured at 1.0MHz and applied reverse voltage of 4.0V.



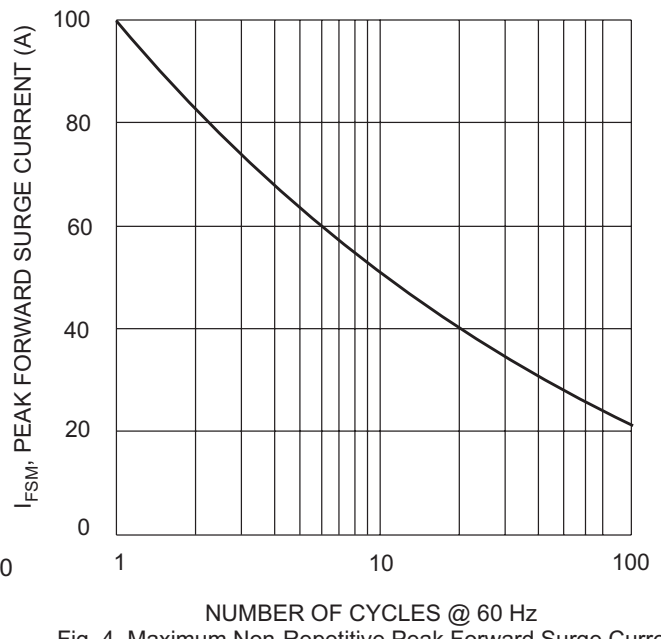
$T_T$ , TERMINAL TEMPERATURE (°C)  
Fig. 1 Forward Derating Curve



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



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



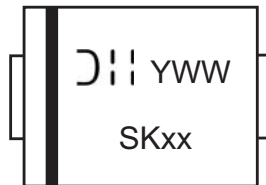
NUMBER OF CYCLES @ 60 Hz  
Fig. 4 Maximum Non-Repetitive Peak Forward Surge Current

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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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