

## SK32 ~ SK36

### SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

**VOLTAGE** 20 to 60 Volt **CURRENT** 3 Ampere

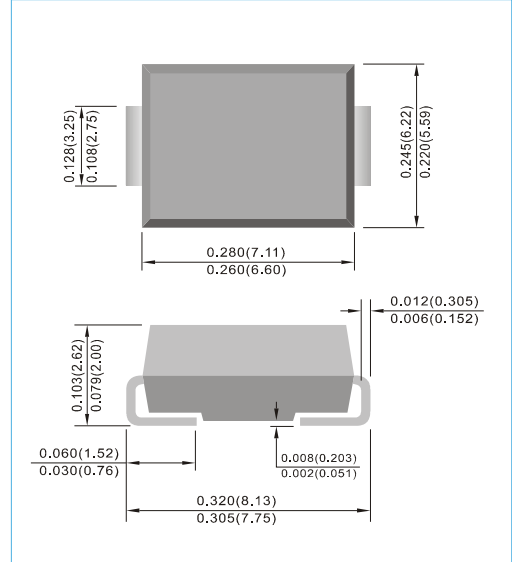
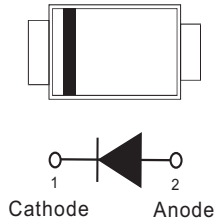
**SMC / DO-214AB** Unit : inch(mm)

#### FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- For surface mounted applications in order to optimize board space
- Low power loss, high efficiency
- High surge capacity
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

#### MECHANICAL DATA

- Case: JEDEC DO-214AB molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Standard packaging: 16mm tape (EIA-481)
- Weight: 0.0082 ounces, 0.2325 grams



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.  
Resistive or inductive load.

| PARAMETER                                                                                                | SYMBOL                               | SK32        | SK33 | SK34        | SK35      | SK36 | UNITS  |
|----------------------------------------------------------------------------------------------------------|--------------------------------------|-------------|------|-------------|-----------|------|--------|
| Maximum Recurrent Peak Reverse Voltage                                                                   | V <sub>RRM</sub>                     | 20          | 30   | 40          | 50        | 60   | V      |
| Maximum RMS Voltage                                                                                      | V <sub>RMS</sub>                     | 14          | 21   | 28          | 35        | 42   | V      |
| Maximum DC Blocking Voltage                                                                              | V <sub>DC</sub>                      | 20          | 30   | 40          | 50        | 60   | V      |
| Maximum Average Forward Current                                                                          | I <sub>F(AV)</sub>                   | 3           |      |             |           |      | A      |
| Peak Forward Surge Current : 8.3ms Single Half Sine-Wave Superimposed On Rated Load                      | I <sub>FSM</sub>                     | 100         |      |             |           |      | A      |
| Maximum Forward Voltage at 3A (Note 1)                                                                   | V <sub>F</sub>                       | 0.5         |      |             | 0.75      |      | V      |
| Maximum DC Reverse Current at Rated DC Blocking Voltage<br>T <sub>J</sub> =25°C<br>T <sub>J</sub> =100°C | I <sub>R</sub>                       | 0.2<br>20   |      |             | 0.1<br>20 |      | mA     |
| Typical Thermal Resistance<br>(Note 2)<br>(Note 3)                                                       | R <sub>θJL</sub><br>R <sub>θJA</sub> | 15<br>110   |      |             |           |      | °C / W |
| Operating Junction Temperature Range                                                                     | T <sub>J</sub>                       | -55 to +125 |      | -55 to +150 |           |      | °C     |
| Storage Temperature Range                                                                                | T <sub>STG</sub>                     | -55 to +150 |      |             |           |      | °C     |

#### NOTES :

1. Pulse Test with PW =300μsec, 1% Duty Cycle.
2. Mounted on a FR4 PCB, single-sided copper, with 100cm<sup>2</sup> copper pad area.
3. Mounted on a FR4 PCB, single-sided copper, mini pad.

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### RATING AND CHARACTERISTIC CURVES

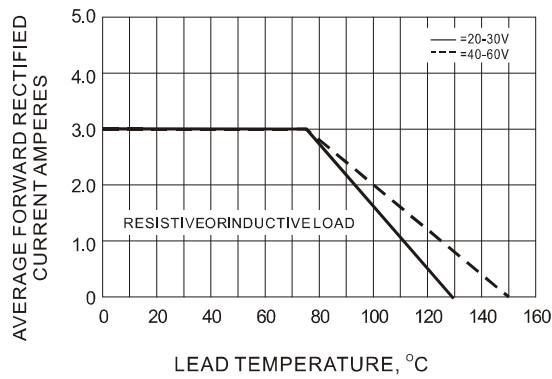


Fig.1- FORWARD CURRENT DERATING CURVE

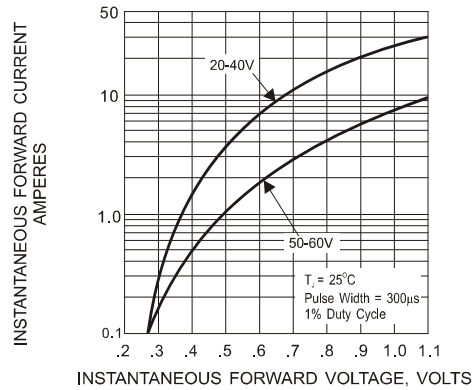


Fig.2- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

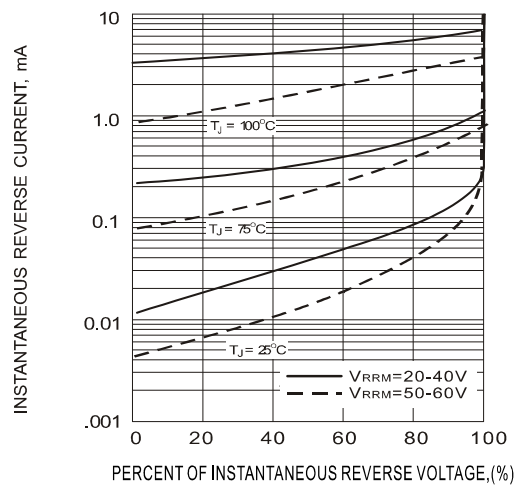


Fig.3- TYPICAL REVERSE CHARACTERISTICS

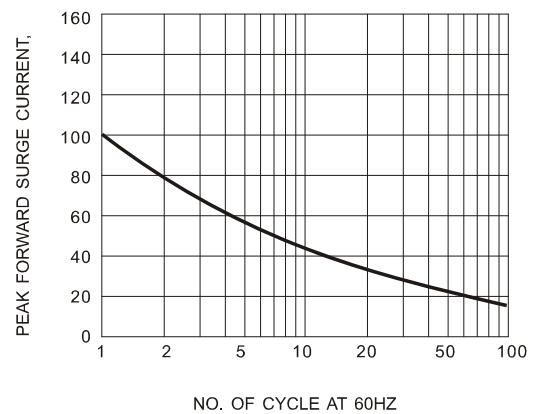


Fig.4- MAXIMUM NON - REPETITIVE SURGE CURRENT

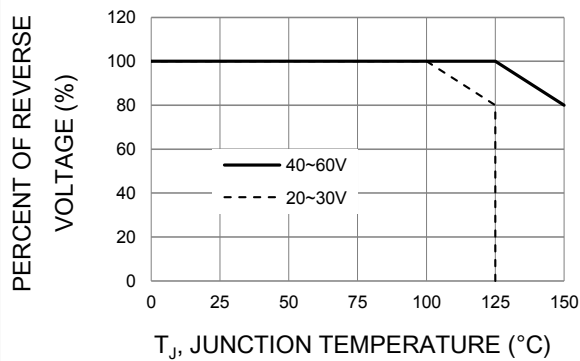


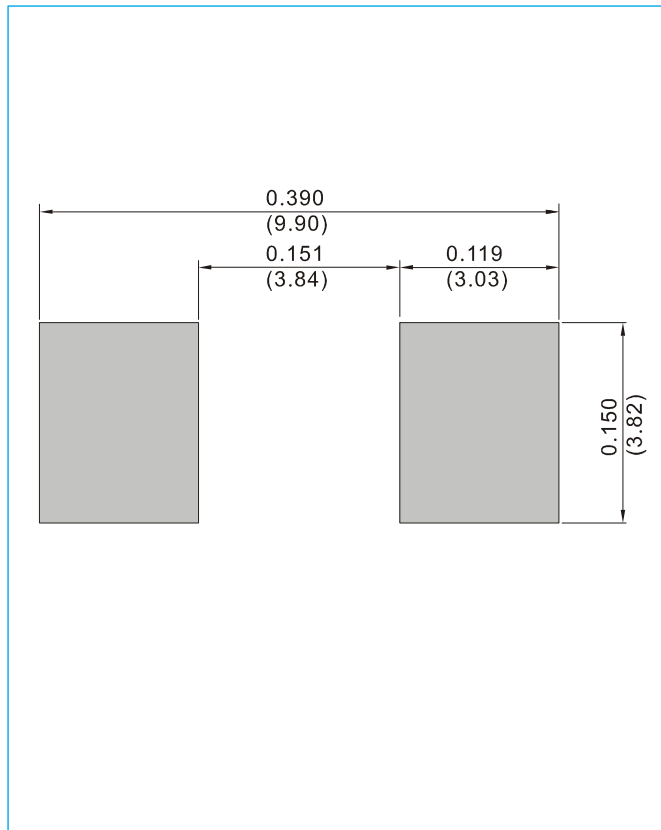
Fig.5- OPERATING TEMPERATURE DERATING CURVE

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### MOUNTING PAD LAYOUT

**SMC / DO-214AB**

Unit : inch(mm)



### ORDER INFORMATION

- Packing information  
T/R - 3K per 13" plastic Reel  
T/R - 0.8K per 7" plastic Reel

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### Part No\_packing code\_Version

SK32\_R1\_00001

SK32\_R2\_00001

For example :

RB500V-40\_R2\_00001

Part No.

Serial number

Version code means HF

Packing size code means 13"

Packing type means T/R

| Packing Code XX                      |                      |                                  |                      | Version Code XXXXX |                      |                                       |
|--------------------------------------|----------------------|----------------------------------|----------------------|--------------------|----------------------|---------------------------------------|
| Packing type                         | 1 <sup>st</sup> Code | Packing size code                | 2 <sup>nd</sup> Code | HF or RoHS         | 1 <sup>st</sup> Code | 2 <sup>nd</sup> ~5 <sup>th</sup> Code |
| Tape and Ammunition Box (T/B)        | A                    | N/A                              | 0                    | HF                 | 0                    | serial number                         |
| Tape and Reel (T/R)                  | R                    | 7"                               | 1                    | RoHS               | 1                    | serial number                         |
| Bulk Packing (B/P)                   | B                    | 13"                              | 2                    |                    |                      |                                       |
| Tube Packing (T/P)                   | T                    | 26mm                             | X                    |                    |                      |                                       |
| Tape and Reel (Right Oriented) (TRR) | S                    | 52mm                             | Y                    |                    |                      |                                       |
| Tape and Reel (Left Oriented) (TRL)  | L                    | PANASERT T/B CATHODE UP (PBCU)   | U                    |                    |                      |                                       |
| FORMING                              | F                    | PANASERT T/B CATHODE DOWN (PBCD) | D                    |                    |                      |                                       |



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