



SK23L SERIES

LOW VF SCHOTTKY RECTIFIER

VOLTAGE 30 to 100 Volt **CURRENT** 2 Ampere

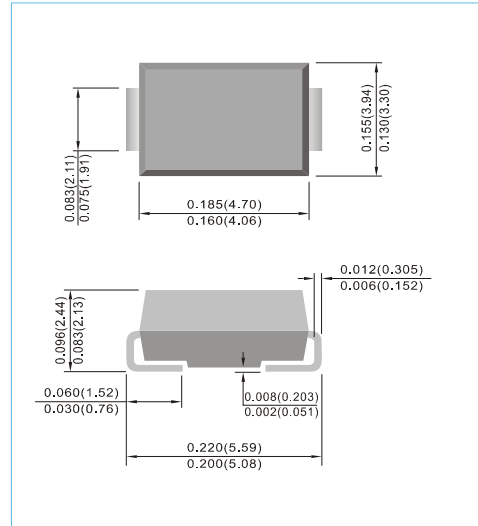
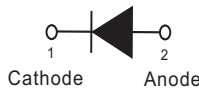
SMB / DO-214AA Unit : inch(mm)

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications in order to optimize board space
- Low power loss, high efficiency
- High surge capacity
- IEC61000-4-2 ESD 15KV air, 8KV Contact Compliance
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

MECHANICAL DATA

- Case: JEDEC DO-214AA molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Standard packaging: 12mm tape (EIA-481)
- Weight: 0.0032 ounce, 0.092 gram



MAXIMUM RATINGS(T_A=25°C unless otherwise noted)

| PARAMETER | SYMBOL | SK23L | SK24L | SK26L | S210L | UNIT |
|---|--------------------------------------|--------------|-------|-------|--------------|------|
| Maximum repetitive peak reverse voltage | V _{RRM} | 30 | 40 | 60 | 100 | V |
| Maximum rms voltage | V _{RMS} | 21 | 28 | 42 | 70 | V |
| Maximum dc blocking voltage | V _{DC} | 30 | 40 | 60 | 100 | V |
| Maximum average forward rectified current | I _{F(AV)} | 2 | | | | A |
| Maximum reverse current | I _R | 250 | | 150 | | μA |
| Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load | I _{FSM} | 50 | | | | A |
| Typical thermal resistance (Note 1) | R _{θJA} R _{θJL} | 115 20 | | | | °C/W |
| Operating junction temperature range | T _J | -55 to + 125 | | | -55 to + 150 | °C |
| Storage temperature range | T _{STG} | -55 to + 150 | | | | °C |

Note: 1. Mounted on P.C.B with minimum pad layout.

ELECTRICAL CHARACTERISTICS(T_A=25°C unless otherwise noted)

| PARAMETER | SYMBOL | TEST CONDITIONS | SK23L / SK24L | | SK26L | | S210L | | UNIT | |
|-------------------------------|----------------|--|-----------------------|------|-------|------|-------|------|------|---|
| | | | TYP. | MAX. | TYP. | MAX. | TYP. | MAX. | | |
| Instantaneous forward voltage | V _F | I _F =1A I _F =2A | T _A =25°C | 0.37 | - | 0.40 | - | 0.53 | - | V |
| | | | | 0.41 | 0.45 | 0.47 | 0.52 | 0.66 | 0.72 | |
| | | I _F =1A I _F =2A | T _A =125°C | 0.25 | - | 0.30 | - | 0.47 | - | V |
| | | | | 0.30 | - | 0.41 | - | 0.56 | - | |



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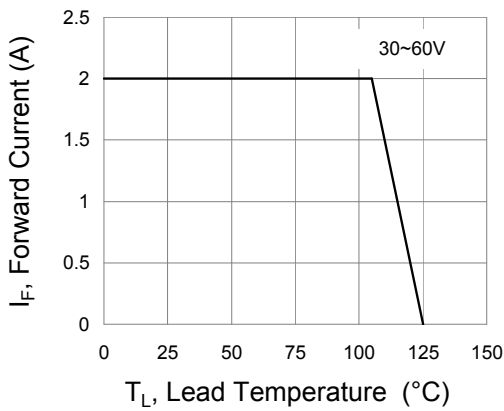


Fig.1 Forward Current Derating Curve

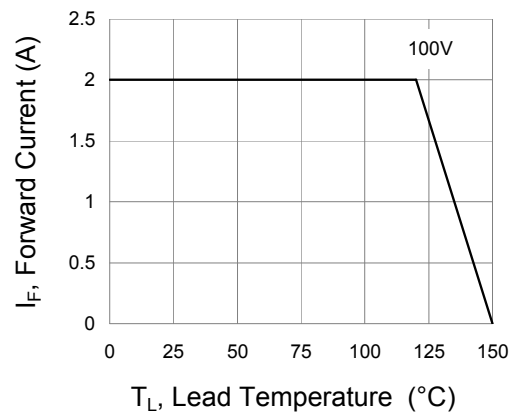


Fig.2 Typical Junction Capacitance

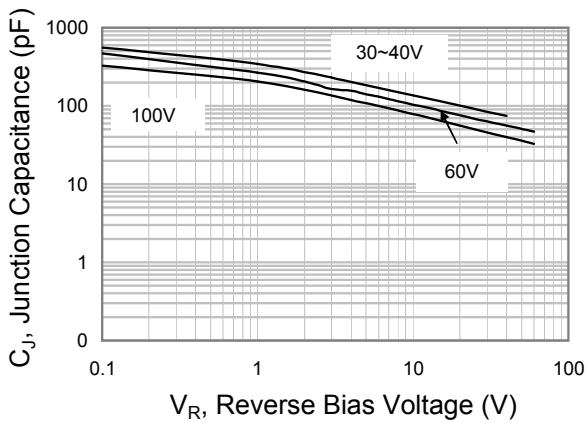


Fig.3 Typical Junction Capacitance

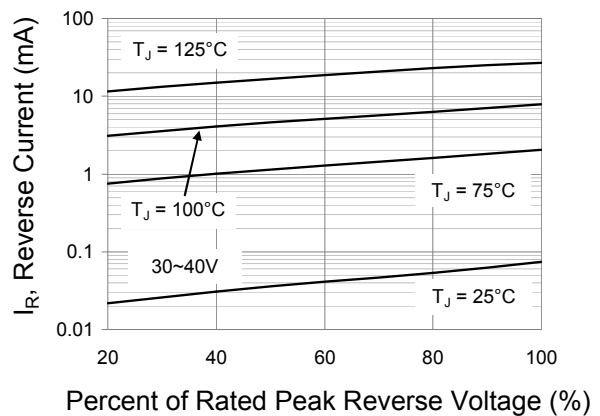


Fig.4 Typical Reverse Characteristics

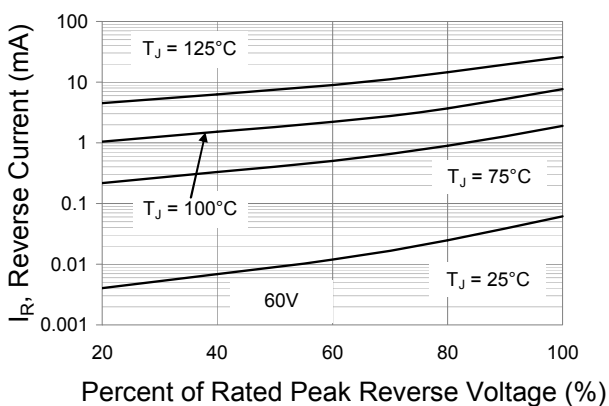


Fig.5 Typical Reverse Characteristics

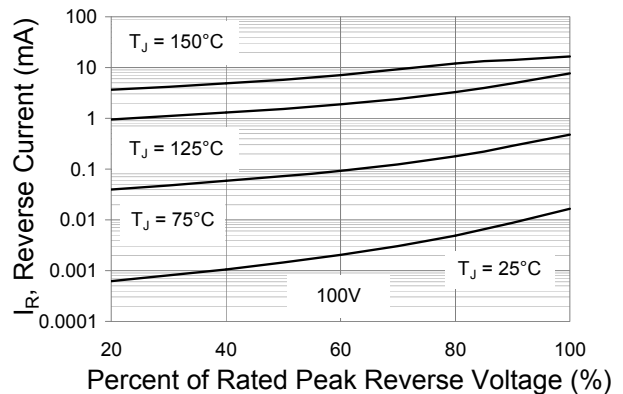


Fig.6 Typical Reverse Characteristics



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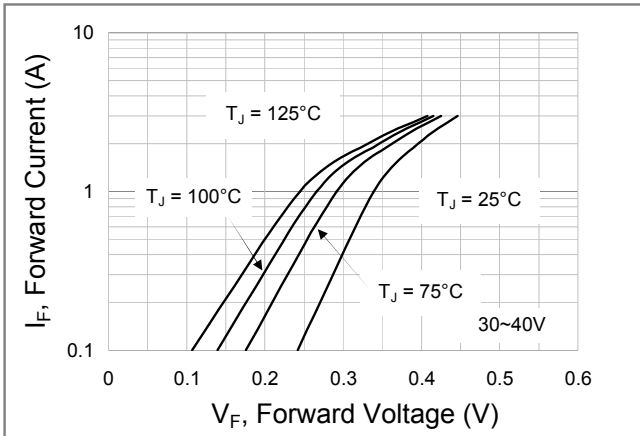


Fig.7 Typical Forward Characteristics

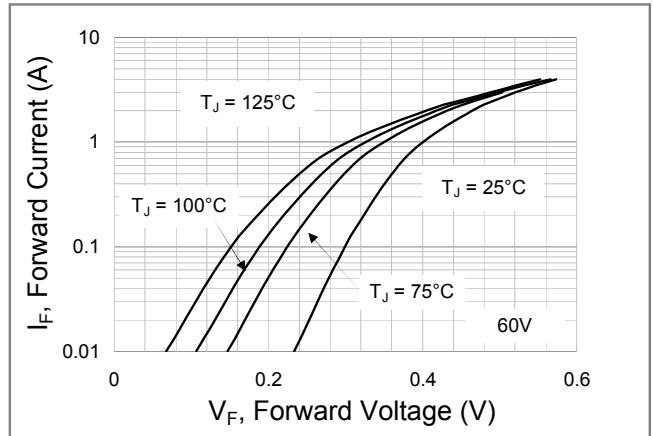


Fig.8 Typical Forward Characteristics

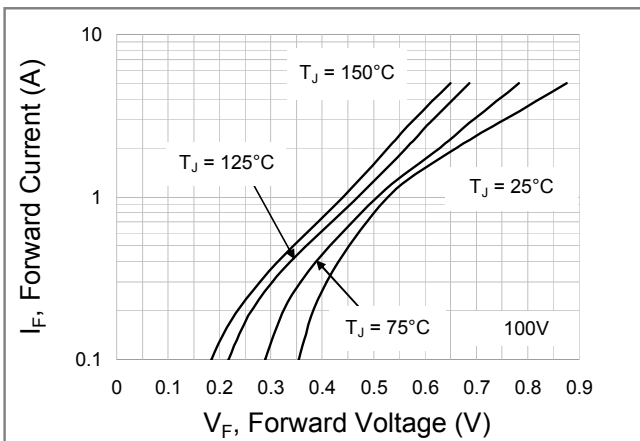


Fig.9 Typical Forward Characteristics

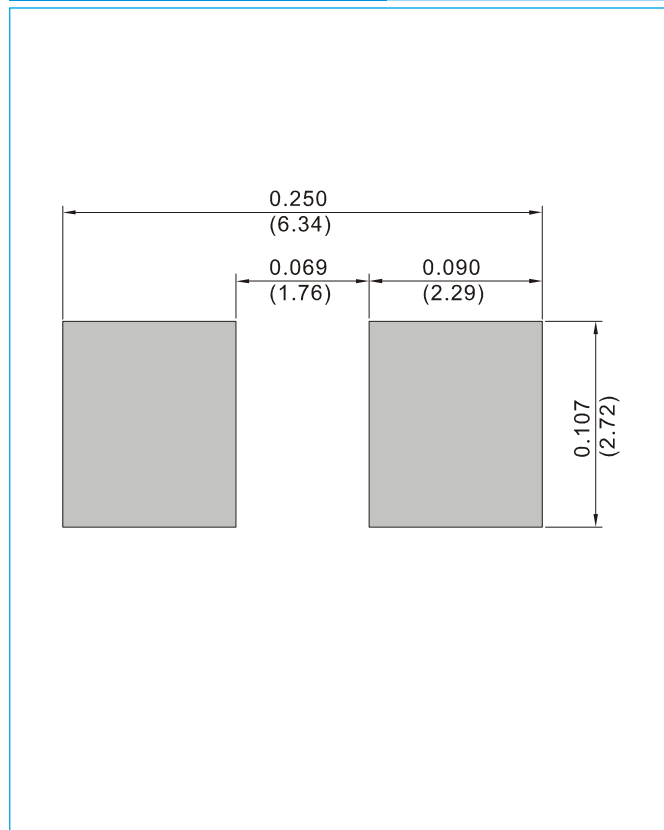


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MOUNTING PAD LAYOUT

SMB / DO-214AA

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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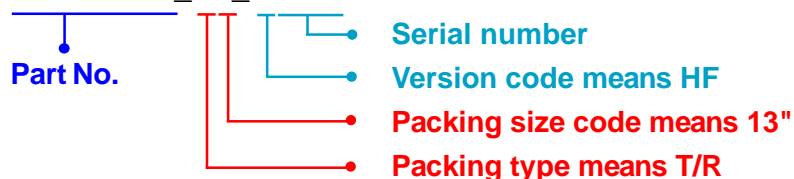
Part No_packing code_Version

SK23L_R1_00001

SK23L_R2_00001

For example :

RB500V-40_R2_00001



| Packing Code XX | | | | Version Code XXXXX | | |
|--------------------------------------|----------------------|----------------------------------|----------------------|---------------------------|----------------------|---------------------------------------|
| Packing type | 1 st Code | Packing size code | 2 nd Code | HF or RoHS | 1 st Code | 2 nd -5 th 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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