

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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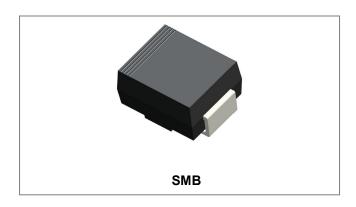








SK22 THRU SK210 SCHOTTKY RECTIFIER



Features

- Schottky Barrier Chip
- Guard Ring Die Construction for Transient Protection
- High Current Capability
- Low Power Loss, High Efficiency
- High Surge Current Capability
- For Use in Low Voltage, High Frequency Inventers, Free Wheeling, and Polarity Protection Applications
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Circuit Diagram



Mechanical Data

- Case: Low Profile Molded plastic
- Terminals: Plated leads solderable per MIL-STD-750,
 Method 2006 recorded.
 - Method 2026 guaranteed
- Polarity: Color band or cathode Notch
- Mounting Position: AnyWeight: 0.09grams(approx)

| Characteristic | Symbol | SK22 | SK23 | SK24 | SK25 | SK26 | SK28 | SK29 | SK210 | Units |
|---|--|------|------|------|-----------|------|------|------|-------|-------|
| Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage | V _{RRM} V _{RWM} V _R | 20 | 30 | 40 | 50 | 60 | 80 | 90 | 100 | V |
| Maximum RMS voltage | V _{RMS} | 14 | 21 | 28 | 35 | 42 | 56 | 64 | 71 | V |
| Average Rectified Output Current @T _L = 105°C | Io | | | | 2.0 | | | | | Α |
| Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method) | If sine-wave superimposed on I _{FSM} 50 | | | Α | | | | | | |
| Forward Voltage @ I _O = 2.0 A | V _F | | 0.55 | | 0 | .70 | | 0.85 | | V |
| Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 100°C | I _{RM} | | | | 0.5 20 | 1 | | | | mA |
| Typical Thermal Resistance Junction to Ambient (Note 1) | | 75 | | | | | | K/W | | |
| Operating Temperature Range | TJ | | | - | 65 to + | 125 | | | | °C |
| Storage Temperature Range | T _{STG} | | | - | 65 to + | 150 | | | | °C |

Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

Note: 1. mounted on P.C. Board with 8.0mm² copper pad areas.

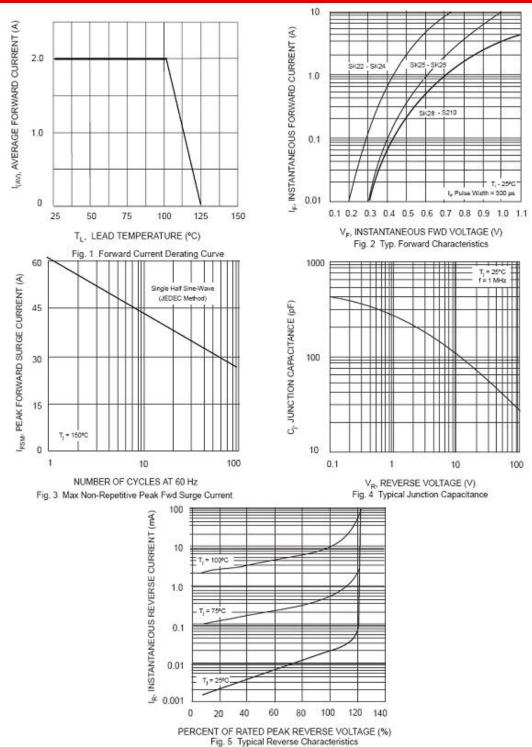
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Ratings and Characteristics Curves



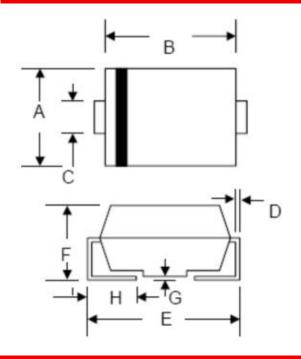
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Mechanical Dimensions SMB



| SYMBOL | Millin | meters | Inches | | | |
|---------|--------|--------|--------|-------|--|--|
| STWIBOL | Min. | Max. | Min. | Max. | | |
| Α | 3.30 | 3.94 | 0.130 | 0.155 | | |
| В | 4.06 | 4.70 | 0.160 | 0.185 | | |
| С | 1.80 | 2.20 | 0.071 | 0.087 | | |
| D | 0.152 | 0.305 | 0.006 | 0.012 | | |
| E | 4.80 | 5.59 | 0.189 | 0.220 | | |
| F | 2.10 | 2.60 | 0.083 | 0.102 | | |
| G | 0.051 | 0.203 | 0.002 | 0.008 | | |
| н | 0.76 | 1.52 | 0.030 | 0.060 | | |

Ordering Information

| Device | Package | Shipping | | | |
|--------|---------------|----------------|--|--|--|
| SK22 | | | | | |
| THRU | SMB (Pb-Free) | 3000pcs / reel | | | |
| SK210 | , | • | | | |

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our tape and reel packaging specification.

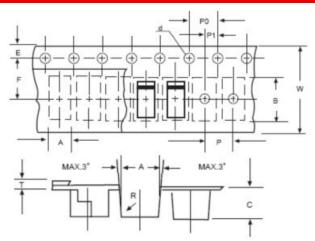
Marking Diagram



Where XXXXX is YYWWL

First row: Part Number (SK22, SK23, SK24, SK25, SK26, SK28, SK29, SK210)
Second row: YYWWL
YY is the manufacture year,
WW is the manufacture week code,
L is the wafer's Lot Number

Carrier Tape Specification SMB



| SYMBOL | Millimeters | | | | |
|---------|-------------|-------|--|--|--|
| STWIBOL | Min. | Max. | | | |
| Α | 2.97 | 3.17 | | | |
| В | 5.70 | 5.90 | | | |
| O | 2.32 | 2.52 | | | |
| d | 1.40 | 1.60 | | | |
| Е | 1.40 | 1.60 | | | |
| F | 5.60 | 5.70 | | | |
| Р | 3.90 | 4.10 | | | |
| P0 | 3.90 | 4.10 | | | |
| P1 | 1.90 | 2.10 | | | |
| Т | 0.25 | 0.35 | | | |
| W | 11.80 | 12.20 | | | |

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