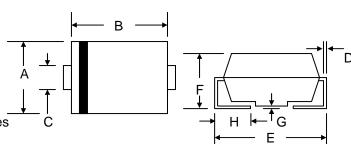


3.0A HIGH VOLTAGE SURFACE MOUNT SCHOTTKY BARRIER DIODE



Features

- Low Forward Voltage
- Epitaxial Construction with Oxide Passivation
- Guard Ring for Transient and ESD Protection
- Surge Overload Rating to 100A Peak
- Low Power Loss
- Fast Switching
- Ideally Suited for Use in High Frequency SMPS, Inverters and As Free Wheeling Diodes



Mechanical Data

- Case: SMC/DO-214AB, Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Device Code, See Page 3
- Weight: 0.21 grams (approx.)
- Lead Free: For RoHS / Lead Free Version,
 Add "-LF" Suffix to Part Number, See Page 4

| SMC/DO-214AB | | | | |
|----------------------|-------|-------|--|--|
| Dim | Min | Max | | |
| Α | 5.59 | 6.22 | | |
| В | 6.60 | 7.11 | | |
| C | 2.75 | 3.25 | | |
| D | 0.152 | 0.305 | | |
| Е | 7.75 | 8.13 | | |
| F | 2.00 | 2.62 | | |
| G | 0.051 | 0.203 | | |
| Н | 0.76 | 1.27 | | |
| All Dimensions in mm | | | | |

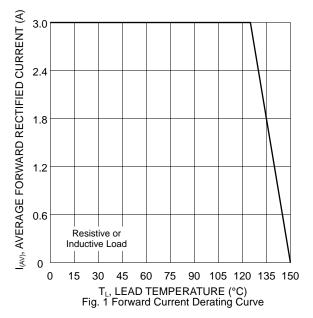
Maximum Ratings @T_A=25°C unless otherwise specified

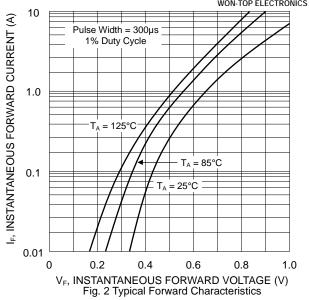
| Characteristic | Symbol | SK3150 | SK3200 | Unit |
|---|--------------------|----------|--------|------|
| Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage | Vrrm Vrwm Vr | 150 | 200 | V |
| RMS Reverse Voltage | VR(RMS) | 105 | 140 | V |
| Average Rectified Output Current (Note 1) | lo | 3.0 | | А |
| Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method) | IFSM | 10 | 00 | А |
| Forward Voltage @I _F = 3.0A | VFM | 0. | 9 | V |
| Peak Reverse Current $@T_J = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_J = 100^{\circ}C$ | lкм | 0. 5. | 2 0 | mA |
| Typical Junction Capacitance (Note 2) | Сл | 80 | | pF |
| Thermal Resistance, Junction to Ambient (Note 1) Thermal Resistance, Junction to Lead (Note 1) | R JA R JL | 55 17 | | °C/W |
| Operating and Storage Temperature Range | TJ, TSTG | -55 to | +150 | °C |

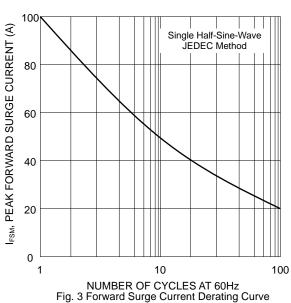
Note: 1. Mounted on FR-4 PCB with 14 x 14mm copper pads.

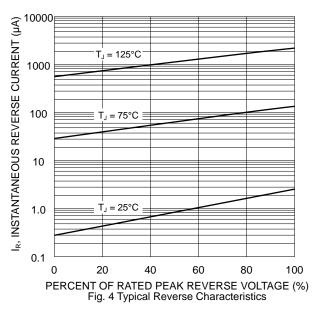
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

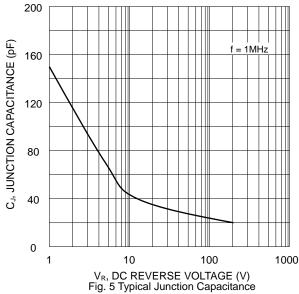








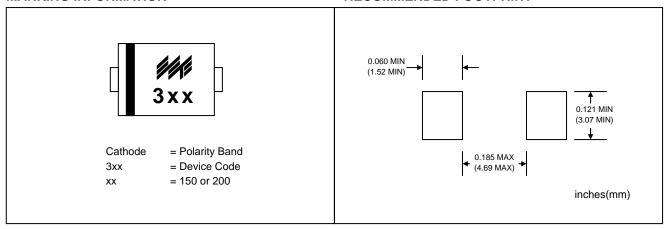




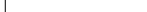


MARKING INFORMATION

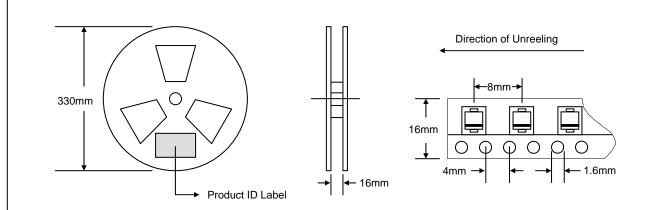
RECOMMENDED FOOTPRINT



PACKAGING INFORMATION



TAPE & REEL



| Reel Diameter (mm) | Quantity (PCS) | Inner Box Size L x W x H (mm) | Quantity (PCS) | Carton Size L x W x H (mm) | Quantity (PCS) | Approx. Gross Weight (KG) |
|--------------------|-------------------|----------------------------------|-------------------|-------------------------------|-------------------|---------------------------|
| 330 | 3,000 | 340 x 337 x 45 | 6,000 | 370 x 370 x 420 | 48,000 | 19.0 |

Note: 1. Paper reel, white or gray color.
2. Components are packed in accordance with EIA standard 481-1 and 481-2.



ORDERING INFORMATION

| Product No. | Package Type | Shipping Quantity |
|-------------|--------------|-------------------|
| SK3150-T3 | SMC | 3000/Tape & Reel |
| SK3200-T3 | SMC | 3000/Tape & Reel |

- 1. Shipping quantity given is for minimum packing quantity only. For minimum
- order quantity, please consult the Sales Department.

 To order RoHS / Lead Free version (with Lead Free finish), add "-LF" 2. suffix to part number above. For example, SK3150-T3-LF.

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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

Won-Top Electronics Co., Ltd. No. 44 Yu Kang North 3rd Road,

Chine Chen Dist., Kaohsiung 806, Taiwan

Phone: 886-7-822-5408 or 886-7-822-5410

Fax: 886-7-822-5417 Email: sales@wontop.com Internet: http://www.wontop.com

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