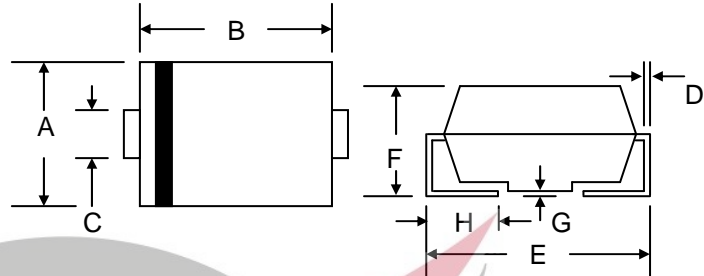


Features

- Glass Passivated Die Construction
- Ideally Suited for Automatic Assembly
- Low Forward Voltage Drop
- Surge Overload Rating to 100A Peak
- Low Power Loss
- Built-in Strain Relief
- Plastic Case Material has UL Flammability Classification Rating 94V-0



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: Type Number
- Weight: 0.21 grams (approx.)
- **Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4**

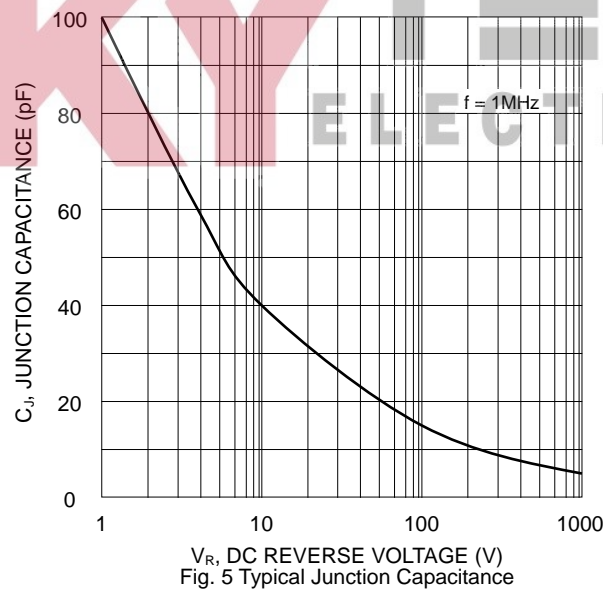
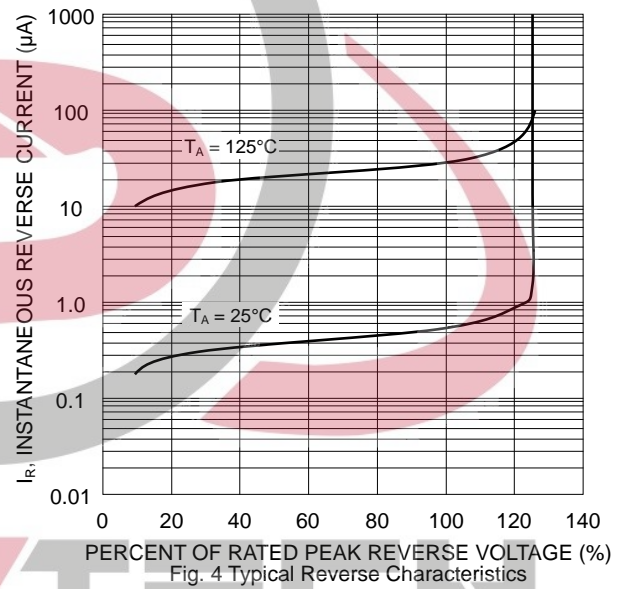
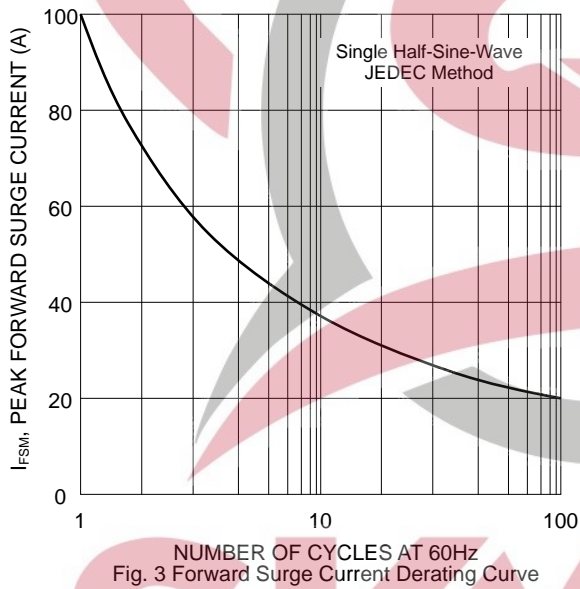
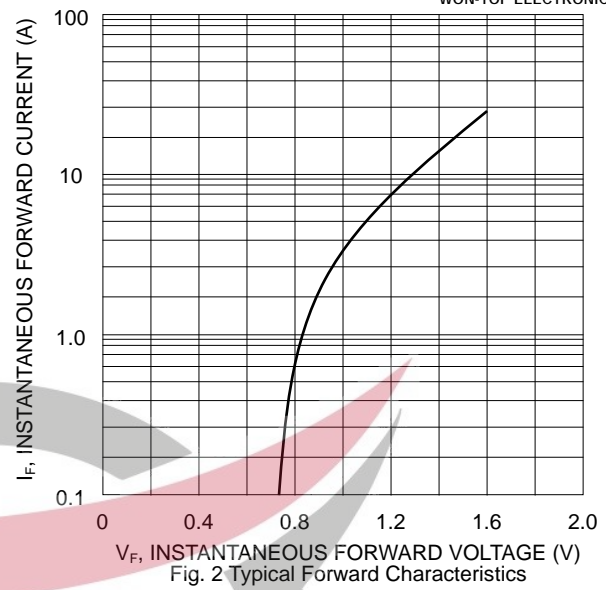
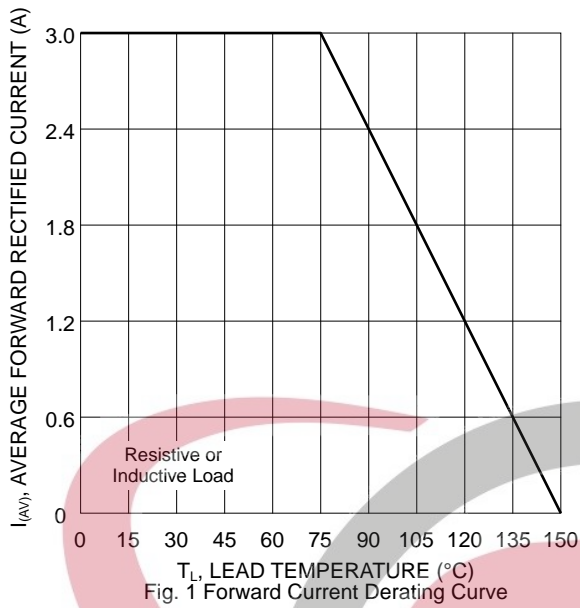
| SMC/DO-214AB | | |
|----------------------|-------|-------|
| Dim | Min | Max |
| A | 5.59 | 6.22 |
| B | 6.60 | 7.11 |
| C | 2.75 | 3.25 |
| D | 0.152 | 0.305 |
| E | 7.75 | 8.13 |
| F | 2.00 | 2.62 |
| G | 0.051 | 0.203 |
| H | 0.76 | 1.27 |
| All Dimensions in mm | | |

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

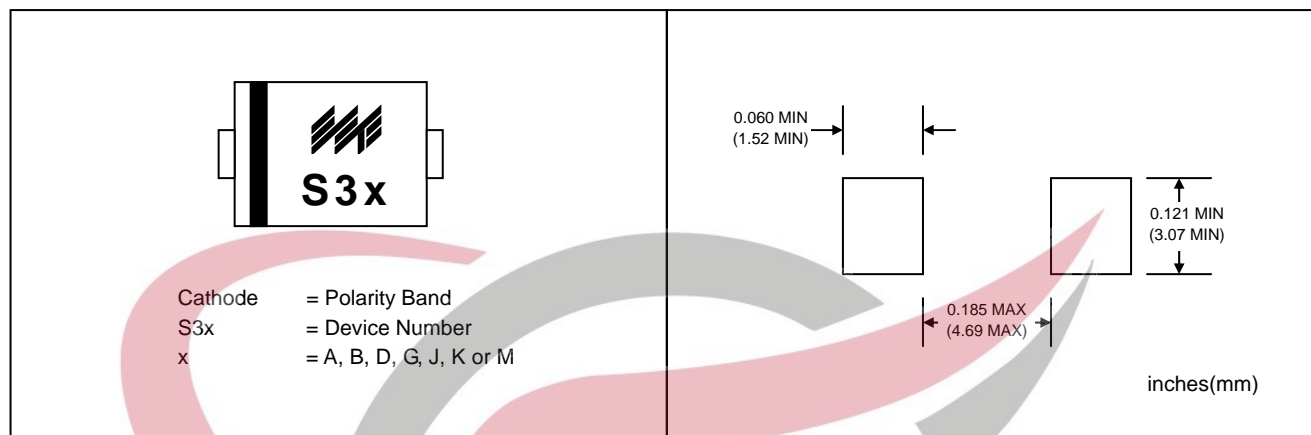
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

| Characteristic | Symbol | S3A | S3B | S3D | S3G | S3J | S3K | S3M | Unit |
|---|--|-------------|-----|-----|-----|-----|-----|------|------|
| Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage | V _{RRM} V _{RWM} V _R | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| RMS Reverse Voltage | V _{R(RMS)} | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Average Rectified Output Current @T _L = 75°C | I _O | 3.0 | | | | | | | A |
| Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method) | I _{FSM} | 100 | | | | | | | A |
| Forward Voltage @I _F = 3.0A | V _{FM} | 1.15 | | | | | | | V |
| Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 125°C | I _{RM} | 10 250 | | | | | | | μA |
| Typical Junction Capacitance (Note 1) | C _J | 60 | | | | | | | pF |
| Typical Thermal Resistance (Note 2) Typical Thermal Resistance (Note 3) | R _{JA} R _{JL} | 47 13 | | | | | | | °C/W |
| Operating and Storage Temperature Range | T _J , T _{STG} | -65 to +150 | | | | | | | °C |

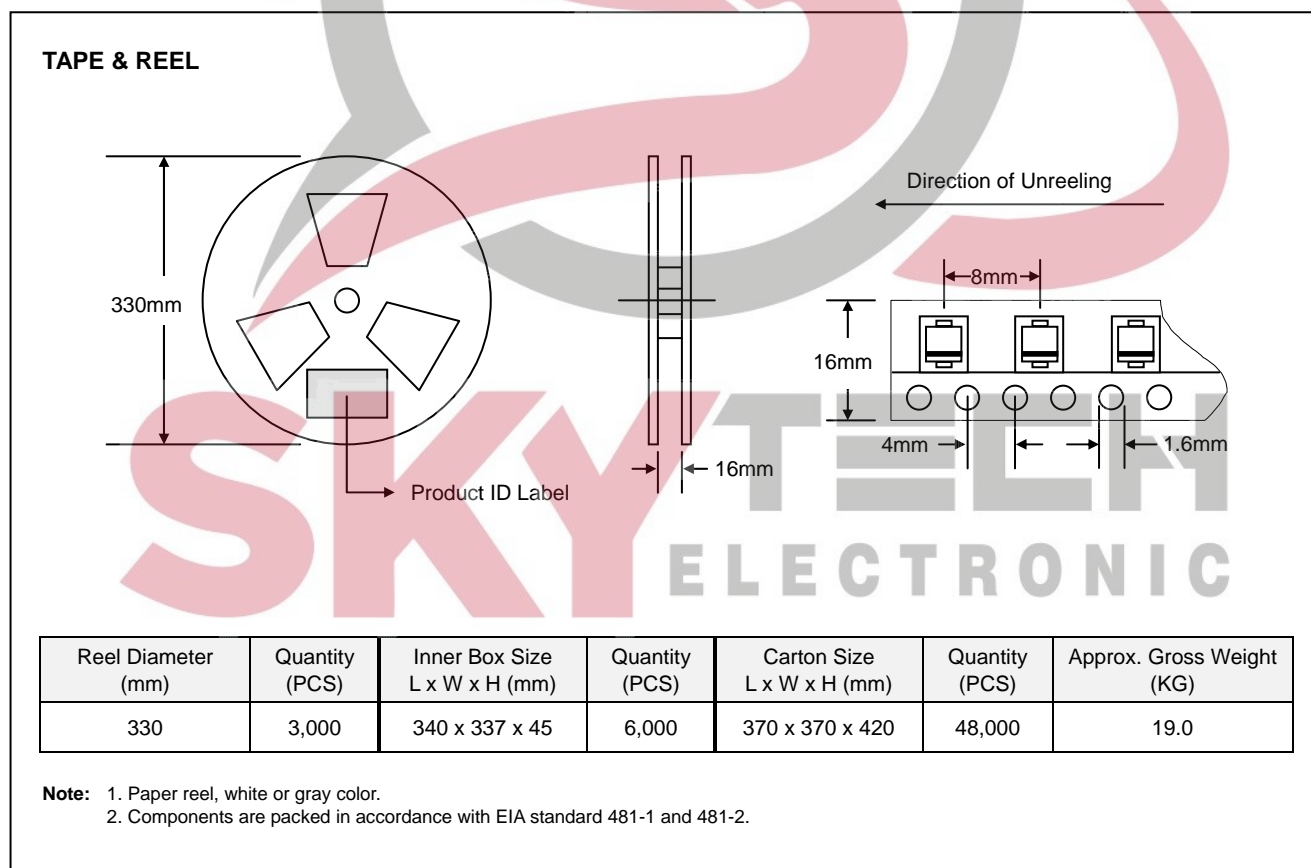
Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0 V DC.
2. Junction to ambient, device mounted on PCB with 8.0mm x 8.0mm copper pads.
3. Junction to lead, device mounted on PCB with 8.0mm x 8.0mm copper pads.



MARKING INFORMATION




PACKAGING INFORMATION



ORDERING INFORMATION

| Product No. | Package Type | Shipping Quantity |
|-------------|--------------|-------------------|
| S3A-T3 | SMC | 3000/Tape & Reel |
| S3B-T3 | SMC | 3000/Tape & Reel |
| S3D-T3 | SMC | 3000/Tape & Reel |
| S3G-T3 | SMC | 3000/Tape & Reel |
| S3J-T3 | SMC | 3000/Tape & Reel |
| S3K-T3 | SMC | 3000/Tape & Reel |
| S3M-T3 | SMC | 3000/Tape & Reel |

- 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" suffix to part number above. For example, S3A-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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