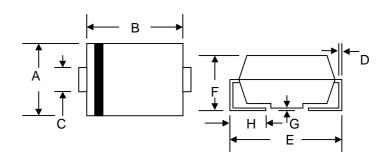


5.0A SURFACE MOUNT GLASS PASSIVATED STANDARD DIODE

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-O



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

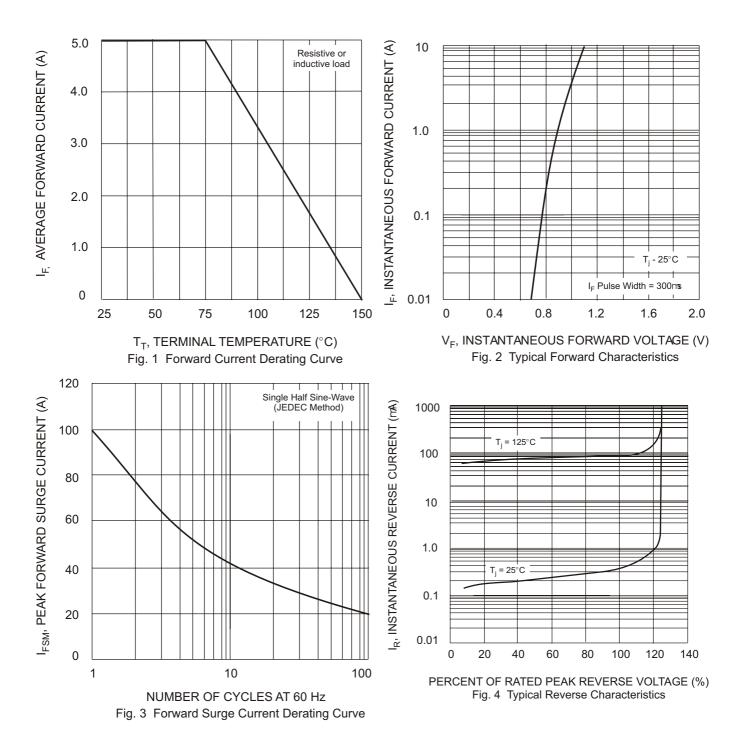
| SMC/DO-214AB | | | | | |
|----------------------|-------|-------|--|--|--|
| Dim | Min | Max | | | |
| Α | 5.59 | 6.22 | | | |
| В | 6.60 | 7.11 | | | |
| С | 2.75 | 3.25 | | | |
| D | 0.152 | 0.305 | | | |
| Е | 7.75 | 8.13 | | | |
| F | 2.00 | 2.62 | | | |
| G | 0.051 | 0.203 | | | |
| Н | 0.76 |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

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

| Characteristic | Symbol | S5A | S5B | S5D | S5G | S5J | S5K | S5M | Unit |
|---|--------------------|-------------|-----|-----|-----------|-----|-----|------|------|
| Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage | VRRM VRWM VR | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| RMS Reverse Voltage | VR(RMS) | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Average Rectified Output Current @T _L = 7 | ′5°C lo | 5.0 | | | | | | Α | |
| Non-Repetitive Peak Forward Surge Currer 8.3ms Single half sine-wave superimposed rated load (JEDEC Method) | | 100 | | | | | | А | |
| Forward Voltage @I _F = | 5.0A VFM | 1.15 | | | | | | V | |
| | IDM | | | | 10 250 | | | | μΑ |
| Typical Junction Capacitance (Note 1) | Cj | 40 | | | | | | pF | |
| Typical Thermal Resistance (Note 2) | R ∂ JL | 10 | | | | | | °C/W | |
| Operating and Storage Temperature Range | Tj, TSTG | -65 to +150 | | | | | °C | | |

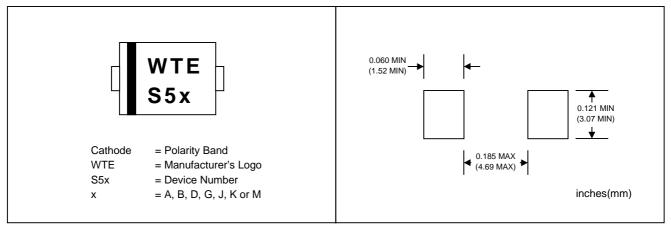
Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0 V DC.

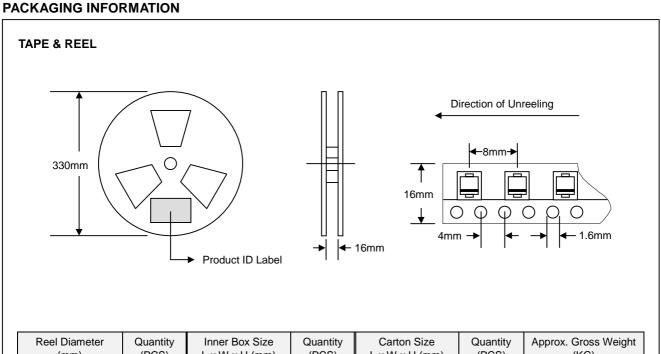
2. Mounted on P.C. Board with 8.0mm² land area.



MARKING INFORMATION

RECOMMENDED FOOTPRINT





| 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 |
|-------------|--------------|-------------------|
| S5A-T3 | SMC | 3000/Tape & Reel |
| S5B-T3 | SMC | 3000/Tape & Reel |
| S5D-T3 | SMC | 3000/Tape & Reel |
| S5G-T3 | SMC | 3000/Tape & Reel |
| S5J-T3 | SMC | 3000/Tape & Reel |
| S5K-T3 | SMC | 3000/Tape & Reel |
| S5M-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, S5A-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, 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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