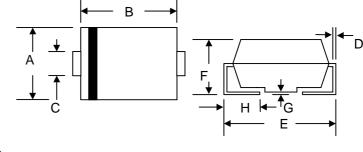




3.0A SURFACE MOUNT GLASS PASSIVATED FAST RECOVERY DIODE

Features

- Glass Passivated Die Construction
- Ideally Suited for Automatic Assembly
- Low Forward Voltage Drop, High Efficiency
- Surge Overload Rating to 100A Peak
- Low Power Loss
- Fast Recovery Time
- 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 | | | |
| 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

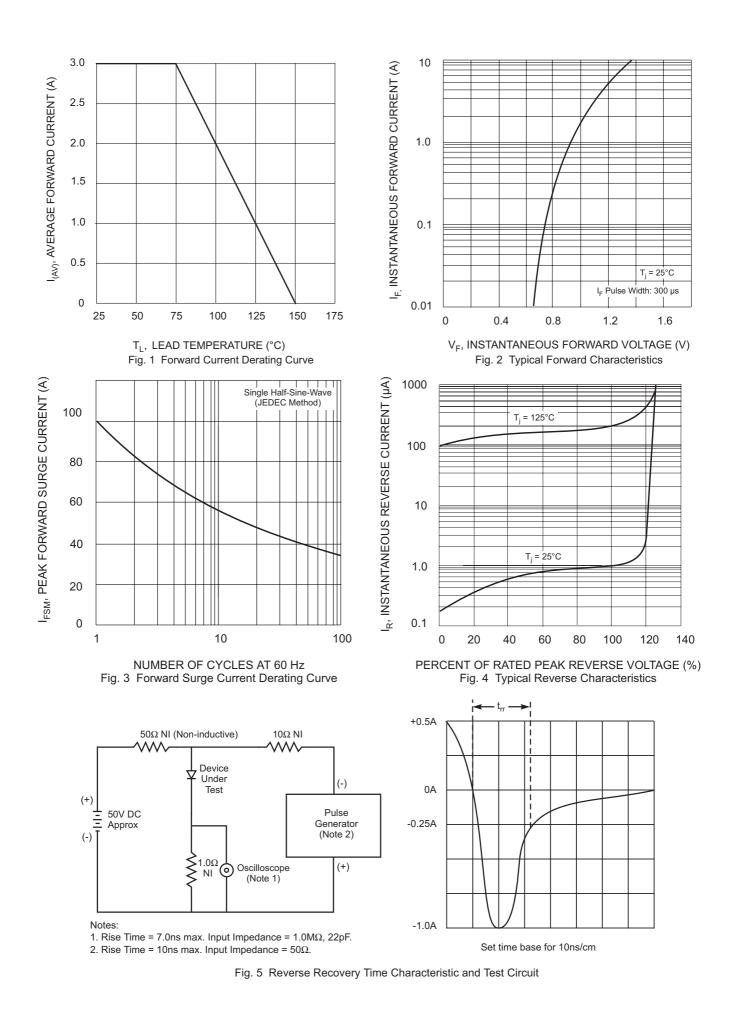
| Characteristic | Symbol | FR3A | FR3B | FR3D | FR3G | FR3J | FR3K | Unit |
|---|--------------------|-------------|------|------|------|------|------|------|
| Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage | Vrrm Vrwm Vr | 50 | 100 | 200 | 400 | 600 | 800 | V |
| RMS Reverse Voltage | VR(RMS) | 35 | 70 | 140 | 280 | 420 | 560 | V |
| Average Rectified Output Current $@T_L = 75^{\circ}C$ | ; lo | 3.0 | | | | | А | |
| Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method) | IFSM | 100 | | | | A | | |
| Forward Voltage $@I_F = 3.04$ | A Vfm | 1.30 | | | | | V | |
| Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 125^{\circ}C$ | IRM | 10 350 | | | | | μA | |
| Reverse Recovery Time (Note 1) | trr | 150 250 500 | | | 500 | nS | | |
| Typical Junction Capacitance (Note 2) | Cj | 60 | | | | | pF | |
| Typical Thermal Resistance (Note 3) | R∂JL | 15 | | | | °C/W | | |
| Operating and Storage Temperature Range | Тj, Tsтg | -50 to +150 | | | | °C | | |

Note: 1. Measured with I_{F} = 0.5A, I_{R} = 1.0A, I_{rr} = 0.25A. See figure 5.

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

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

Tel : 02-25651052



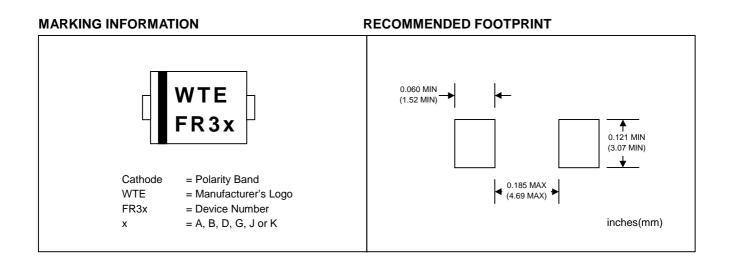
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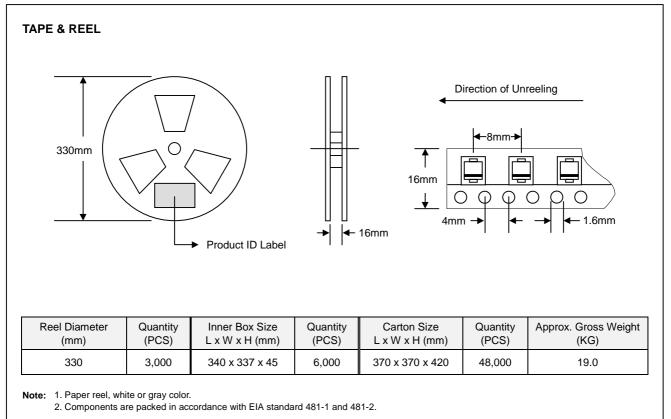
鍂曦企業有限公司

Fax : 02-25215390

Tel : 02-25651052



PACKAGING INFORMATION



ORDERING INFORMATION

| Product No. | Package Type | Shipping Quantity |
|-------------|--------------|-------------------|
| FR3A-T3 | SMC | 3000/Tape & Reel |
| FR3B-T3 | SMC | 3000/Tape & Reel |
| FR3D-T3 | SMC | 3000/Tape & Reel |
| FR3G-T3 | SMC | 3000/Tape & Reel |
| FR3J-T3 | SMC | 3000/Tape & Reel |
| FR3K-T3 | SMC | 3000/Tape & Reel |

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

2. To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, FR3A-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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