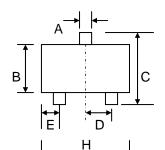


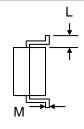
SURFACE MOUNT SCHOTTKY BARRIER DIODE



Features

- Low Forward Voltage
- Fast Switching Speed
- PN Junction Guard Ring for Transient and ESD Protection
- For General Purpose Switching Applications
- Plastic Material UL Recognition Flammability Classification 94V-0





Mechanical Data

Case: SOT-323, Molded Plastic

 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

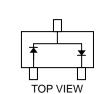
Polarity: See Diagram

• Weight: 0.006 grams (approx.)

Mounting Position: Any

Marking: 3J

Lead Free: For RoHS / Lead Free Version,
Add "-LF" Suffix to Part Number, See Page 4



| SOT-323 | | | | |
|----------------------|--------------|------|--|--|
| Dim | Min | Max | | |
| Α | 0.25 | 0.40 | | |
| В | 1.15 | 1.35 | | |
| С | 2.00 | 2.40 | | |
| D | 0.65 Nominal | | | |
| E | 0.30 | 0.40 | | |
| G | 1.20 | 1.40 | | |
| Н | 1.80 | 2.20 | | |
| J | 1 | 0.10 | | |
| K | 0.90 | 1.10 | | |
| L | 0.25 | _ | | |
| М | 0.05 | 0.15 | | |
| All Dimensions in mm | | | | |

Maximum Ratings @T_A=25°C unless otherwise specified

| Characteristic | Symbol | Value | Unit |
|--|--------------------|-------------|------|
| Non-Repetitive Peak Reverse Voltage | VRM | 45 | V |
| Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage | VRRM VRWM VR | 40 | V |
| Average Rectified Output Current | lo | 30 | mA |
| Non-Repetitive Peak Forward Surge Current, 60Hz | IFSM | 200 | mA |
| Operating and Storage Temperature Range | Тյ, Тѕтс | -40 to +125 | °C |

Thermal Characteristics

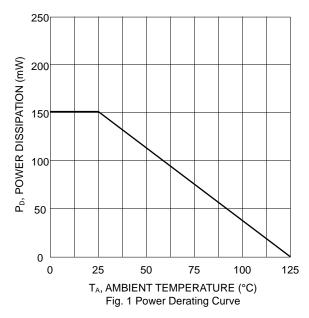
| Characteristic | Symbol | Value | Unit |
|----------------------------|--------|-------|------|
| Power Dissipation (Note 1) | Pb | 150 | mW |

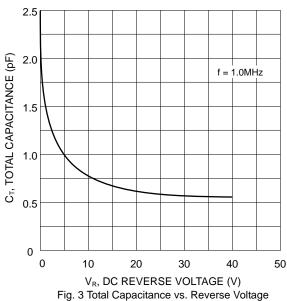
Note: 1. Mounted on FR-4 PC board with minimum recommended pad layout.

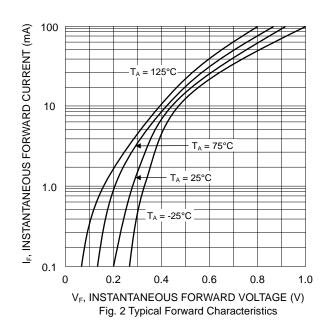


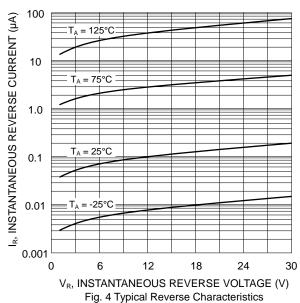
$\textbf{Electrical Characteristics} \ @\textit{T}_{A} = 25 ^{\circ} \textit{C unless otherwise specified}$

| Characteristic | | Symbol | Min. | Тур. | Max. | Unit |
|---|--------------|----------------|------|------|------|------|
| Forward Voltage Drop | @ IF = 1.0mA | VF | | 0.26 | 0.37 | V |
| Reverse Leakage Current | @ VR = 10V | lR | | 0.05 | 1.0 | μA |
| Diode Capacitance (VR = 1.0V, f = 1.0MHz) | | C _D | | 2.0 | | pF |





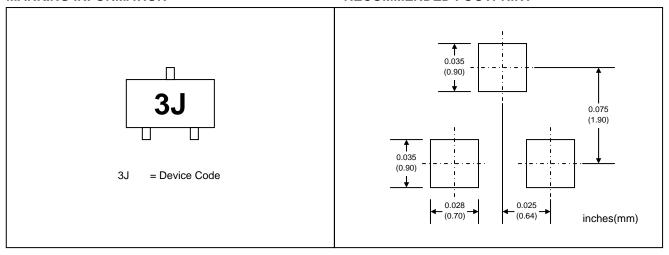




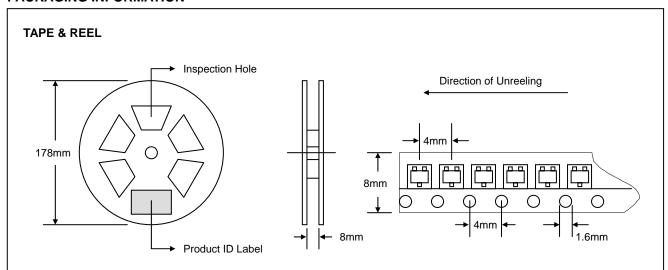


MARKING INFORMATION

RECOMMENDED FOOTPRINT



PACKAGING INFORMATION



| 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) |
|--------------------|-------------------|----------------------------------|-------------------|-------------------------------|-------------------|---------------------------|
| 178 | 3,000 | 187 x 187 x 65 | 15,000 | 390 x 240 x 420 | 150,000 | 10.0 |

Note: 1. Anti-static plastic reel, white, water clear or blue color. Inspection hole might be varied in different alignment.

2. Components are packed in accordance with EIA standard 481-1 and 481-2.



ORDERING INFORMATION

| Product No. | Package Type | Shipping Quantity |
|--------------|--------------|-------------------|
| RB706F-40-T1 | SOT-323 | 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, RB706F-40-T1-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.

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