

TC2500 - TC2506 ROHS



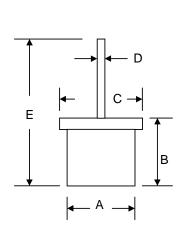
25A GLASS PASSIVATED 5/16" TIN CAN PRESS-FIT DIODE

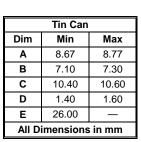
Features

- Glass Passivated Die Construction
- Low Leakage
- Low Cost
- High Surge Current Capability
- Typical IR less than 5.0μA

Mechanical Data

- Case: All Copper Case and Components Hermetically Sealed
- Terminals: Contact Areas Readily Solderable
- Polarity: Cathode to Case (Reverse Units Are Available Upon Request and Are Designated By A "R" Suffix, i.e. TC2502R or TC2504R)
- Polarity: Red Color Equals Standard, Black Color Equals Reverse Polarity
- Mounting Position: Any
- Lead Free: For RoHS / Lead Free Version,
 Add "-LF" Suffix to Part Number, See Page 2





Anode +

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 | TC2500 | TC2501 | TC2502 | TC2503 | TC2504 | TC2505 | TC2506 | Unit |
|---|--------------------|-------------|--------|--------|--------|--------|--------|--------|----------|
| Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage | VRRM VRWM VR | 50 | 100 | 200 | 300 | 400 | 500 | 600 | V |
| RMS Reverse Voltage | VR(RMS) | 35 | 70 | 140 | 210 | 280 | 350 | 420 | V |
| Average Rectified Output Current @T _C = 150°C | lo | 25 | | | | Α | | | |
| Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method) | IFSМ | 300 | | | | А | | | |
| Forward Voltage @I _F = 25A | VFM | 1.0 | | | ٧ | | | | |
| Peak Reverse Current | lгм | 5.0 500 | | | μΑ | | | | |
| Typical Junction Capacitance (Note 1) | Cj | 300 | | | pF | | | | |
| Typical Thermal Resistance (Note 2) | R _θ JC | 1.2 | | | °C/W | | | | |
| Operating and Storage Temperature Range | ТJ, Tsтg | -65 to +175 | | | ç | | | | |

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

2. Thermal Resistance: Junction to case, single side cooled.

ORDERING INFORMATION

| Product No. | Package Type | Shipping Quantity | | | |
|-------------|-------------------------|-------------------|--|--|--|
| TC2500 | 5/16" Tin Can Press-Fit | 500 Units/Box | | | |
| TC2501 | 5/16" Tin Can Press-Fit | 500 Units/Box | | | |
| TC2502 | 5/16" Tin Can Press-Fit | 500 Units/Box | | | |
| TC2503 | 5/16" Tin Can Press-Fit | 500 Units/Box | | | |
| TC2504 | 5/16" Tin Can Press-Fit | 500 Units/Box | | | |
| TC2505 | 5/16" Tin Can Press-Fit | 500 Units/Box | | | |
| TC2506 | 5/16" Tin Can Press-Fit | 500 Units/Box | | | |

- Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
- To order Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, TC2500-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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