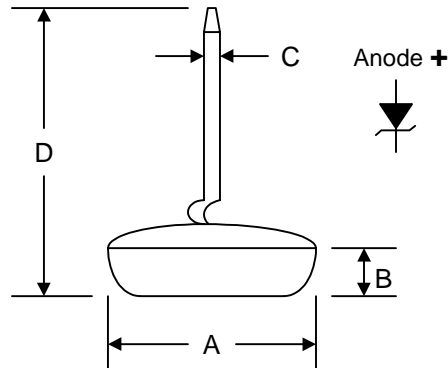


Features

- Glass Passivated Die Construction
- Low Leakage
- Low Cost
- High Surge Current Capability
- Low Forward
- C-Band Terminal Construction

Mechanical Data

- Case: 8.4mm or 9.5mm Dish Type Press-Fit with Silicon Rubber Sealed on Top
- Terminals: Contact Areas Readily Solderable
- Polarity: Cathode to Case (Reverse Units Are Available Upon Request and Are Designated By A "R" Suffix, i.e. DD3520R or DD3520SR)
- Polarity: White 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**



| Dim | 8.4mm Dish | | 9.5mm Dish | |
|----------------------|----------------|------|------------|------|
| | Min | Max | Min | Max |
| A | 8.25 | 8.45 | 9.30 | 9.70 |
| B | 2.00 | 2.40 | 2.0 | 2.40 |
| C | 1.50 Ø Typical | | | |
| D | 17.50 | — | 17.50 | — |
| All Dimensions in mm | | | | |

"S" Suffix Designates 8.4mm Dish
No Suffix Designates 9.5mm Dish

Maximum Ratings and Electrical Characteristics @ $T_A=25^\circ\text{C}$ unless otherwise specified

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

| Characteristic | Symbol | DD3520/S | DD3524/S | Unit |
|--------------------------------------------------------------------------------------------------------------------|---------------------------------|-------------|----------|--------------------|
| Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage | V_{RRM} V_{RWM} V_R | 16 | 20 | V |
| Average Rectified Output Current @ $T_C = 150^\circ\text{C}$ | I_O | 35 | | A |
| Breakdown Voltage Min. Breakdown Voltage Max. @ $I_R = 100\text{mA}$ | V_{BR} | 20 26 | 24 32 | V |
| Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method) | I_{FSM} | 400 | | A |
| Forward Voltage @ $I_F = 35\text{A}$ | V_{FM} | 1.0 | | V |
| Peak Reverse Current At Rated DC Blocking Voltage @ $T_A = 25^\circ\text{C}$ | I_{RM} | 200 | | nA |
| Typical Junction Capacitance (Note 1) | C_j | 300 | | pF |
| Typical Thermal Resistance (Note 2) | $R_{\theta JC}$ | 1.0 | | $^\circ\text{C/W}$ |
| Operating and Storage Temperature Range | T_J, T_{STG} | -65 to +175 | | $^\circ\text{C}$ |

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 |
|-------------|----------------------|-------------------|
| DD3520 | 9.5mm Dish Press-Fit | 2000 Units/Box |
| DD3520S | 8.4mm Dish Press-Fit | 2000 Units/Box |
| DD3524 | 9.5mm Dish Press-Fit | 2000 Units/Box |
| DD3524S | 8.4mm Dish Press-Fit | 2000 Units/Box |

1. Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
2. **To order Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, DD3520-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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