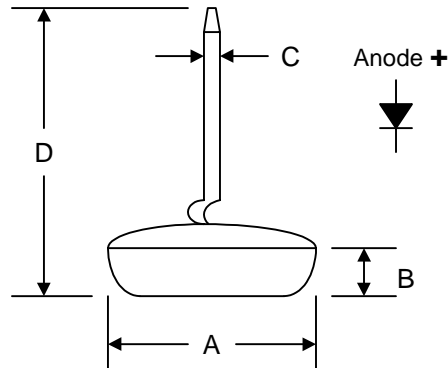


Features

- 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. DD250R or DD250SR)
- 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%.

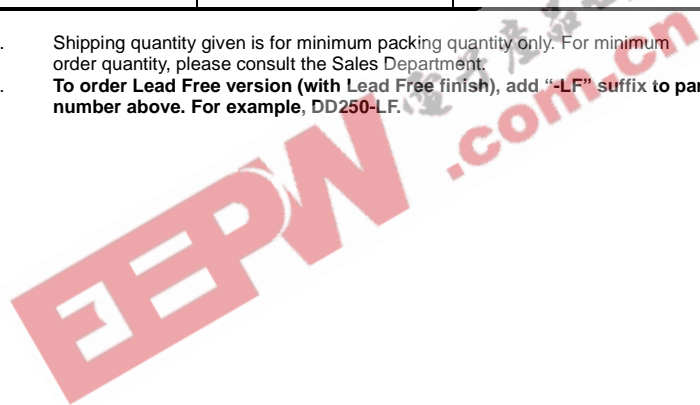
Characteristic	Symbol	DD250/S	DD251/S	DD252/S	DD253/S	DD254/S	DD255/S	DD256/S	Unit
Peak Repetitive Reverse Voltage	V_{RRM}								V
Working Peak Reverse Voltage	V_{RWM}	50	100	200	300	400	500	600	
DC Blocking Voltage	V_R								
RMS Reverse Voltage	$V_{R(RMS)}$	35	70	140	210	280	350	420	V
Average Rectified Output Current @ $T_C = 150^\circ\text{C}$	I_O	25							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	300							A
Forward Voltage @ $I_F = 25\text{A}$	V_{FM}	1.0							V
Peak Reverse Current @ $T_A = 25^\circ\text{C}$ At Rated DC Blocking Voltage @ $T_A = 100^\circ\text{C}$	I_{RM}	5.0 500							μA
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
DD250	9.5mm Dish Press-Fit	2000 Units/Box
DD250S	8.4mm Dish Press-Fit	2000 Units/Box
DD251	9.5mm Dish Press-Fit	2000 Units/Box
DD251S	8.4mm Dish Press-Fit	2000 Units/Box
DD252	9.5mm Dish Press-Fit	2000 Units/Box
DD252S	8.4mm Dish Press-Fit	2000 Units/Box
DD253	9.5mm Dish Press-Fit	2000 Units/Box
DD253S	8.4mm Dish Press-Fit	2000 Units/Box
DD254	9.5mm Dish Press-Fit	2000 Units/Box
DD254S	8.4mm Dish Press-Fit	2000 Units/Box
DD255	9.5mm Dish Press-Fit	2000 Units/Box
DD255S	8.4mm Dish Press-Fit	2000 Units/Box
DD256	9.5mm Dish Press-Fit	2000 Units/Box
DD256S	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, DD250-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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