

DD500/S – DD506/S

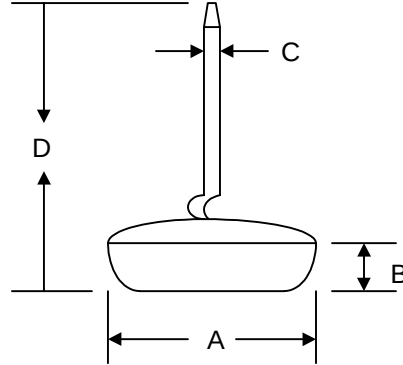
50A 8.4mm/9.5mm DISH DIODE

Features

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

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 An "R" Suffix, i.e. DD502R or DD504SR)
- Polarity: Red Color Equals Standard, Black Color Equals Reverse Polarity
- Mounting Position: Any



	8.4mm Dish		9.5mm Dish	
Dim	Min	Max	Min	Max
A	8.35	8.45	9.50	9.72
B	2.0	2.16	2.0	2.16
C	1.43	1.47	1.43	1.47
D	22.3	—	22.3	—

All Dimensions in mm

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

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	DD500/ S	DD501/ S	DD502/ S	DD503/ S	DD504/ S	DD505/ S	DD506/ S	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	50	100	200	300	400	500	600	V
RMS Reverse Voltage	V _{R(RMS)}	35	70	140	210	280	350	420	V
Average Rectified Output Current @T _A = 150°C	I _O	50							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	500							A
Forward Voltage @I _F = 50A	V _{FM}	1.1							V
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 100°C	I _{RM}	100 500							μA
Typical Junction Capacitance (Note 1)	C _j	300							pF
Typical Thermal Resistance Junction to Case (Note 2)	R _{θJC}	0.6							K/W
Operating and Storage Temperature Range	T _J , T _{STG}	-65 to +175							°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
DD500	Press Fit	200 Units/Tray
DD500S	Press Fit	200 Units/Tray
DD501	Press Fit	200 Units/Tray
DD501S	Press Fit	200 Units/Tray
DD502	Press Fit	200 Units/Tray
DD502S	Press Fit	200 Units/Tray
DD503	Press Fit	200 Units/Tray
DD503S	Press Fit	200 Units/Tray
DD504	Press Fit	200 Units/Tray
DD504S	Press Fit	200 Units/Tray
DD505	Press Fit	200 Units/Tray
DD505S	Press Fit	200 Units/Tray
DD506	Press Fit	200 Units/Tray
DD506S	Press Fit	200 Units/Tray

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

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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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