

DD300/S - DD306/S

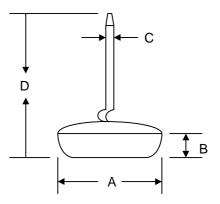
# 30A 8.4mm/9.5mm DISH DIODE

### 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. DD302R or DD304SR)
  Polarity: Red Color Equals Standard,
- Black Color Equals Reverse Polarity
- Mounting Position: Any



	8.4mn	n Dish	9.5mm Dish			
Dim	Min	Max	Min	Max		
Α	8.35	8.45	9.50	9.72		
В	2.0	2.16	2.0	2.16		
С	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<sub>A</sub>=25°C unless otherwise specified

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

Characteristic	Symbol	DD300/ S	DD301/ S	DD302/ S	DD303/ S	DD304/ S	DD305/ S	DD306/ S	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 $@T_A = 150^{\circ}C$	lo	30						А	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	400					A		
Forward Voltage @I <sub>F</sub> = 30A	Vfm	1.1				V			
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$	Iгм	100 500						μA	
Typical Junction Capacitance (Note 1)	Cj	300						pF	
Typical Thermal Resistance Junction to Case (Note 2)	R⊕JC	1.0						K/W	
Operating and Storage Temperature Range	TJ, TSTG			-	65 to +17	5			°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.

Product No.	Package Type	Shipping Quantity			
DD300	Press Fit	200 Units/Tray			
DD300S	Press Fit	200 Units/Tray			
DD301	Press Fit	200 Units/Tray			
DD301S	Press Fit	200 Units/Tray			
DD302	Press Fit	200 Units/Tray			
DD302S	Press Fit	200 Units/Tray			
DD303	Press Fit	200 Units/Tray			
DD303S	Press Fit	200 Units/Tray			
DD304	Press Fit	200 Units/Tray			
DD304S	Press Fit	200 Units/Tray			
DD305	Press Fit	200 Units/Tray			
DD305S	Press Fit	200 Units/Tray			
DD306	Press Fit	200 Units/Tray			
DD306S	Press Fit	200 Units/Tray			

#### ORDERING INFORMATION

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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