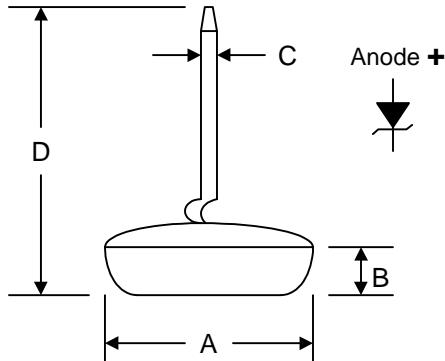


## Features

- 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<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	DD3520/S	DD3524/S	Unit
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>			
Working Peak Reverse Voltage	V <sub>RWM</sub>			
DC Blocking Voltage	V <sub>R</sub>	16	20	V
Average Rectified Output Current <small>@T<sub>C</sub> = 150°C</small>	I <sub>o</sub>	35		A
Breakdown Voltage Min. <small>@I<sub>R</sub> = 100mA</small>	V <sub>BR</sub>	20	24	V
Breakdown Voltage Max. <small>@I<sub>R</sub> = 100mA</small>		26	32	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	400		A
Forward Voltage <small>@I<sub>F</sub> = 35A</small>	V <sub>FM</sub>	1.0		V
Peak Reverse Current At Rated DC Blocking Voltage <small>@T<sub>A</sub> = 25°C</small>	I <sub>RM</sub>	200		nA
Typical Junction Capacitance (Note 1)	C <sub>j</sub>	300		pF
Typical Thermal Resistance (Note 2)	R <sub>θJC</sub>	1.0		°C/W
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-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
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.**

Won-Top Electronics Co., Ltd (WTE) has checked all information carefully and believes it to be correct and accurate. However, WTE cannot assume any responsibility for inaccuracies. Furthermore, this information does not give the purchaser of semiconductor devices any license under patent rights to manufacturer. WTE reserves the right to change any or all information herein without further notice.

**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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*We power your everyday.*