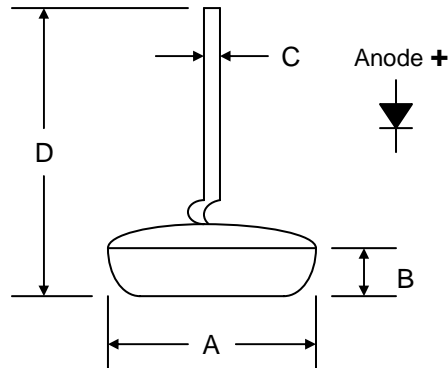


### Features

- 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	2.00	2.40
C	1.50 Ø Typical			
D (+)*	17.50	20.50	17.50	20.50
D (-)*	21.50	24.50	21.50	24.50

All Dimensions in mm

"S" Suffix Designates 8.4mm Dish  
 No Suffix Designates 9.5mm Dish  
 (+)\*: Standard Polarity; (-)\*: Reverse Polarity

### 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	DD250/S	DD251/S	DD252/S	DD253/S	DD254/S	DD255/S	DD256/S	Unit
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>								V
Working Peak Reverse Voltage	V <sub>RWM</sub>	50	100	200	300	400	500	600	
DC Blocking Voltage	V <sub>R</sub>								
RMS Reverse Voltage	V <sub>R(RMS)</sub>	35	70	140	210	280	350	420	V
Average Rectified Output Current @T <sub>C</sub> = 120°C	I <sub>O</sub>	25							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	300							A
Forward Voltage @I <sub>F</sub> = 25A	V <sub>FM</sub>	1.0							V
Peak Reverse Current @T <sub>A</sub> = 25°C	I <sub>RM</sub>	5.0							µA
At Rated DC Blocking Voltage @T <sub>A</sub> = 100°C		500							
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
DD250	9.5mm Dish Press-Fit	500 Units/Box
DD250S	8.4mm Dish Press-Fit	1000 Units/Box
DD251	9.5mm Dish Press-Fit	500 Units/Box
DD251S	8.4mm Dish Press-Fit	1000 Units/Box
DD252	9.5mm Dish Press-Fit	500 Units/Box
DD252S	8.4mm Dish Press-Fit	1000 Units/Box
DD253	9.5mm Dish Press-Fit	500 Units/Box
DD253S	8.4mm Dish Press-Fit	1000 Units/Box
DD254	9.5mm Dish Press-Fit	500 Units/Box
DD254S	8.4mm Dish Press-Fit	1000 Units/Box
DD255	9.5mm Dish Press-Fit	500 Units/Box
DD255S	8.4mm Dish Press-Fit	1000 Units/Box
DD256	9.5mm Dish Press-Fit	500 Units/Box
DD256S	8.4mm Dish Press-Fit	1000 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.**

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.

**Won-Top Electronics Co., Ltd.**

No. 44 Yu Kang North 3rd Road, Chine Chen Dist., Kaohsiung, Taiwan

**Phone:** 886-7-822-5408 or 886-7-822-5410

**Fax:** 886-7-822-5417

**Email:** sales@wontop.com

**Internet:** <http://www.wontop.com>

*We power your everyday.*