

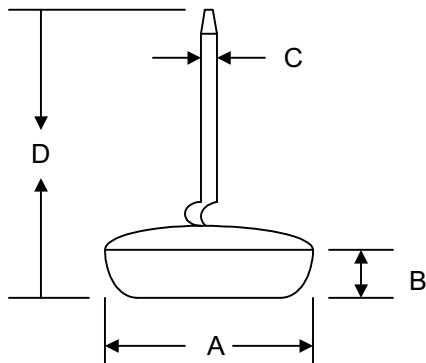
Data Sheet 2512 Rev.—

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



Dim	8.4mm Dish		9.5mm Dish	
	Min	Max	Min	Max
A	0.329(8.35)	0.333(8.45)	0.374(9.50)	0.383(9.72)
B	0.079(2.00)	0.085(2.16)	0.079(2.00)	0.085(2.16)
C	0.056(1.43)	0.058(1.47)	0.056(1.43)	0.058(1.47)
D	0.878(22.3)	—	0.878(22.3)	—

All Dimensions in inch(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	DD300/ S	DD301/ S	DD302/ S	DD303/ S	DD304/ S	DD305/ S	DD306/ S	Unit
Peak Repetitive Reverse Voltage	V _{RRM}								
Working Peak Reverse Voltage	V _{RWM}	50	100	200	300	400	500	600	V
DC Blocking Voltage	V _R								
RMS Reverse Voltage	V _{R(RMS)}	35	70	140	210	280	350	420	V
Average Rectified Output Current @ $T_A = 150^\circ\text{C}$	I _O				30				A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}				400				A
Forward Voltage @ $I_F = 30\text{A}$	V _{FM}				1.1				V
Peak Reverse Current @ $T_A = 25^\circ\text{C}$ At Rated DC Blocking Voltage @ $T_A = 100^\circ\text{C}$	I _{RM}				100	500			µA
Typical Junction Capacitance (Note 1)	C _J				300				pF
Typical Thermal Resistance Junction to Case (Note 2)	R _{θJC}				1.0				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.