

Features

- High Current Density
- Ultra Low Thermal Resistance
- Very Low Forward Voltage Drop
- All Diffused Structure
- Ceramic Housing Hermetic Package

W3



**12000 Amp
Welding Diode
200V~400V**

Applications

- Resistance Welding
- Rectifiers for Galvanic Applications
- Low Voltage High Current Rectifier

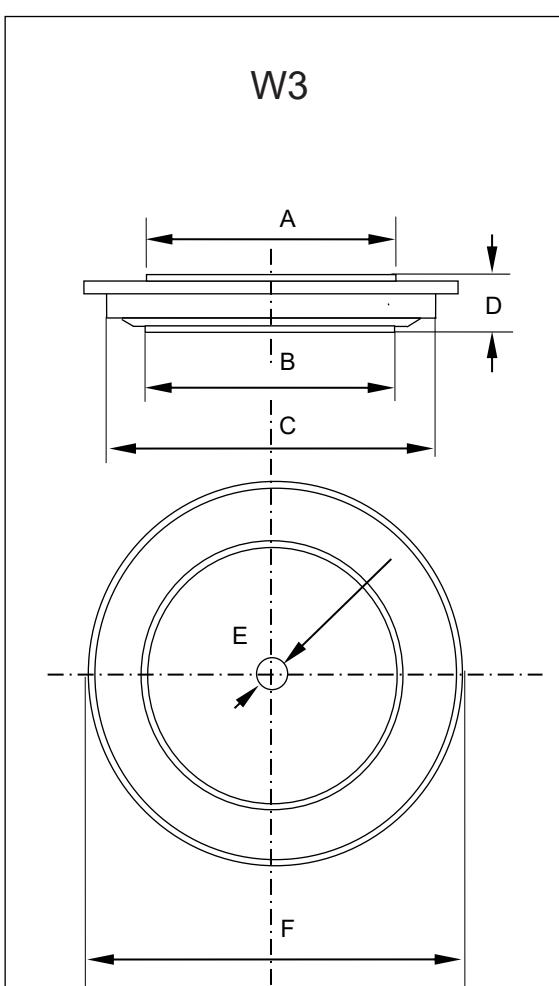
Maximum Ratings

- Operating Junction Temperature Range: -40°C to +170°C
- Storage Temperature Range: -40°C to +170°C
- Max. Thermal Resistance: 0.006°C/W Junction to Case(Double sided cooled)
- Max. Thermal Resistance: 0.012°C/W Junction to Case(Single sided cooled)
- Max. Clamping Force: 30KN
- Typ. Weight: 205g

MCC Part Number	V_{RRM}	V_{RSM}
DZW12000-02	200V	300V
DZW12000-04	400V	450V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Max. Average Forward Current	$I_{F(AV)}$	12000A	$T_C=85^\circ\text{C}, \theta = 180^\circ$ Sine Pulse
Max. RMS Forward Current	$I_{F(RSM)}$	18800A	
Max. Peak One Cycle Surge (Non Repetitive) Current	I_{FSM}	85000A	$t=10\text{ms}, \text{Half Sine Pulse}, T_J=170^\circ\text{C}$
Max. Rating for Fusing	I^2t	36100KA ² s	
Max. Peak Forward Voltage	V_{FM}	0.99V	$I_{FM}=5000\text{A}, T_J=25^\circ\text{C}$
Max. Repetitive Peak Reverse Current	I_{RRM}	15mA 50mA	$V_R=V_{RRM}, T_J=25^\circ\text{C}$ $V_R=V_{RRM}, T_J=170^\circ\text{C}$
Max. Threshold Voltage	V_{TO}	0.74V	$T_J=170^\circ\text{C}$
Max. Slope Resistance	r_T	0.019mΩ	$T_J=170^\circ\text{C}$



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	2.244		57.00		Φ
B	2.244		57.00		Φ
C	2.815		71.50		Φ
D	0.315	0.331	8.00	8.40	
E	0.138	0.059	3.5	1.5	Φ
F	-	2.953	-	75.00	Φ

Ordering Information

Device	Packing
Part Number-BP	Bulk: 12pcs/Box ;60pcs/Ctn

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