

## Features

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

## Applications

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

## Maximum Ratings

- Operating Junction Temperature Range: -40°C to +180°C
- Storage Temperature Range: -40°C to +180°C
- Max. Thermal Resistance: 0.039°C/W Junction to Case(Double sided cooled)
- Max. Thermal Resistance: 0.026°C/W Junction to Case(Single sided cooled)
- Max. Clamping Force: 40KN
- Typ. Weight: 140g

MCC Part Number	V <sub>RRM</sub>	V <sub>RSM</sub>
DZW13500-02	200V	300V
DZW13500-04	400V	450V

## Electrical Characteristics @ 25°C Unless Otherwise Specified

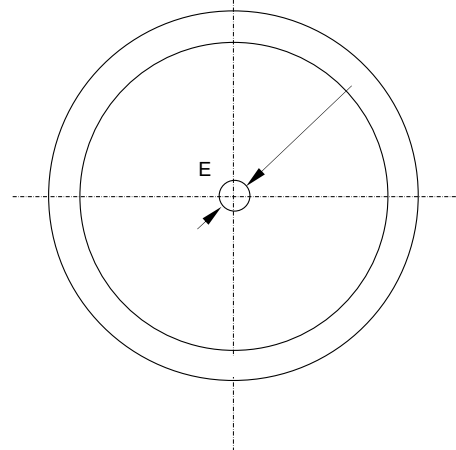
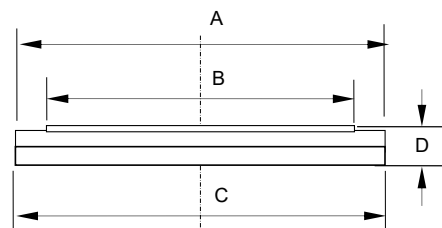
Max. Average Forward Current	I <sub>F(AV)</sub>	13500A	T <sub>C</sub> =85°C, θ = 180° Sine Pulse
Max. RMS Forward Current	I <sub>F(RSM)</sub>	21200A	
Max. Peak One Cycle Surge (Non Repetitive) Current	I <sub>FSM</sub>	85000A	t=10ms, Half Sine Pulse, T <sub>J</sub> =180°C;
Max. Rating for Fusing	I <sup>2</sup> t	36100KA <sup>2</sup> s	
Max. Peak Forward Voltage	V <sub>FM</sub>	0.97V	I <sub>FM</sub> =5000A, T <sub>J</sub> =25°C;
Max. Repetitive Peak Reverse Current	I <sub>RRM</sub>	10mA 75mA	V <sub>R</sub> =V <sub>RRM</sub> , T <sub>J</sub> =25°C; V <sub>R</sub> =V <sub>RRM</sub> , T <sub>J</sub> =180°C;
Max. Threshold Voltage	V <sub>TO</sub>	0.76V	T <sub>J</sub> =180°C;
Max. Slope Resistance	r <sub>T</sub>	0.021mΩ	T <sub>J</sub> =180°C;

W4



**13500 Amp  
Welding Diode  
200V~400V**

W4



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	2.500		63.50		Φ
B	2.244		57.00		Φ
C	2.500		63.50		Φ
D	0.197	0.213	5.00	5.40	
E	0.138X0.059		3.5X1.5		Φ

## Ordering Information

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

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