

# ZW9200- WELDING DIODE

200-400V<sub>RRM</sub>

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**WELDING DIODE**

**Features:**

- . All diffused structure
- . High current density
- . Very low forward voltage drop
- . Ultra-low thermal resistance

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**ELECTRICAL CHARACTERISTICS AND RATINGS**

**Reverse Blocking**

V<sub>RRM</sub> = Repetitive peak reverse voltage  
 V<sub>RSM</sub> = Non repetitive peak reverse voltage (2)

Repetitive peak reverse leakage current	I <sub>RRM</sub>	2 mA 50 mA (3)
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**Conducting - on state**

Parameter	Symbol	Min.	Max.	Typ.	Units	Conditions
Average forward current	I <sub>F(AV)</sub>		9200		A	Sinewave 180°, T <sub>c</sub> =85
RMS forward current	I <sub>FRMS</sub>		14444		A	
Peak one cycle surge (non repetitive) current	I <sub>FSM</sub>		60000		A	Pulse width 10 msec, sinusoidal wave-shape, V <sub>R</sub> =0V, T <sub>j</sub> = 180
I square t	I <sup>2</sup> t		18.0y 10 <sup>6</sup>		A <sup>2</sup> s	Pulse width 10 msec, sinusoidal wave-shape, T <sub>j</sub> = 180
Peak forward voltage	V <sub>FM</sub>		1.05		V	I <sub>FM</sub> = 5000A;T <sub>j</sub> =25°C
Threshold voltage	V <sub>FO</sub>		0.81		V	T <sub>j</sub> =180°C
Slope resistance	r <sub>F</sub>		0.031		m	T <sub>j</sub> =180°C
Reverse Recovery Current (4)	I <sub>RM(REC)</sub>				A	



