# ZW9200- WELDING DIODE

**200-400V$_{RRM}$**

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## WELDING DIODE

### Features:

**W**

- **. All diffused structure**
- **. High current densit**
- **. Ver low forward voltage drop**
- **. Ultra-low thermal resistance**

## ELECTRICAL CHARACTERISTICS AND RATINGS

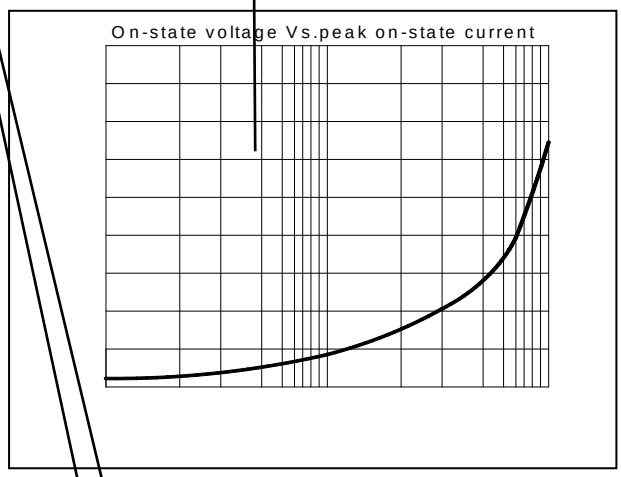
### Reverse Blocking

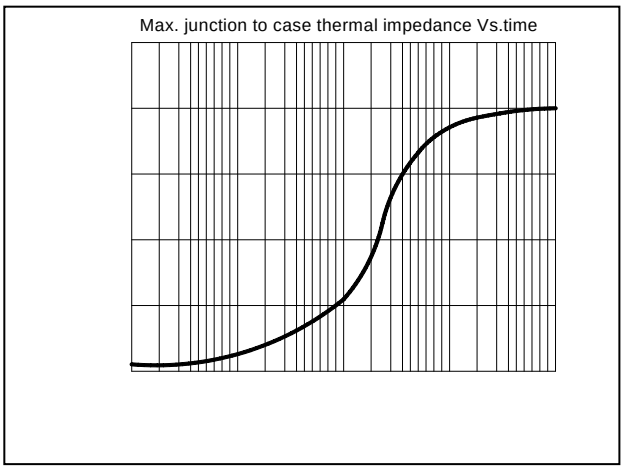
(2)

| | | |
|---|---|---|
| Repetitive peak reverse leakage current | $I_{RRM}$ | 2 mA<br>50 mA (3) |

### Conducting - on state

| Parameter | S mbol | Min. | Ma . | T p. | Units | Conditions |
|---|---|---|---|---|---|---|
| Average forward current | $I_{F(AV)}$ | | 9200 | | A | Sinewave 180º, Tc =85 |
| RMS forward current c | $I_{FRMS}$ | | 14444 | | A | |
| Peak one cycle surge (non repetitive) current | $I_{FSM}$ | | 60000 | | A | Pulse width 10 msec, sinusoidal wave-shape, VR=0V, Tj = 180 |
| I square t | $I^2t$ | | 18.0 $10^6$ | | $A^2s$ | Pulse width 10 msec, sinusoidal wave-shape, Tj = 180 |
| Peak forward voltage | $V_{FM}$ | | 1.05 | | V | $I_{FM}$= 5000A;Tj =25ºC |
| Threshold voltage | $V_{FO}$ | | 0.81 | | V | Tj=180ºC |
| Slope resistance | $r_F$ | | 0.031 | | mΩ | Tj=180ºC |
| Reverse Recovery Current (4) | $I_{RM(REC)}$ | | | | A | / -2 / , 1000 , 0 |
| Reve Rec Charge (4) | $Q_{rr}$ | | 400 | | µC | / / , 1000 , 0 |
| me (4 | | | | | | |


On-state voltage Vs.peak on-state current


Max. junction to case thermal impedance Vs.time