

ZW13500- WELDING DIODE

200-400V_{RRM}

WELDING DIODE

Features:

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

W4



ELECTRICAL CHARACTERISTICS AND RATINGS

Reverse Blocking

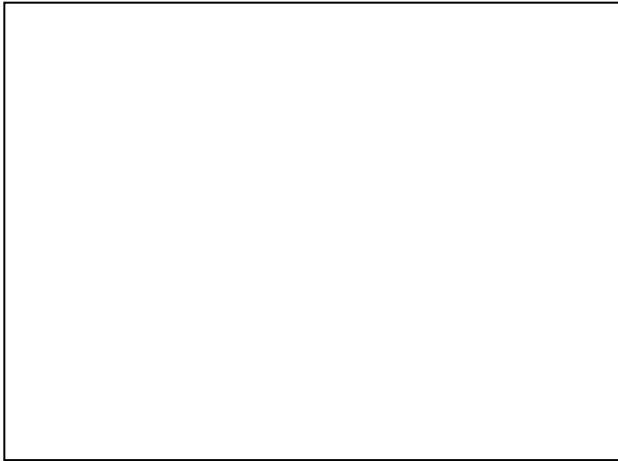
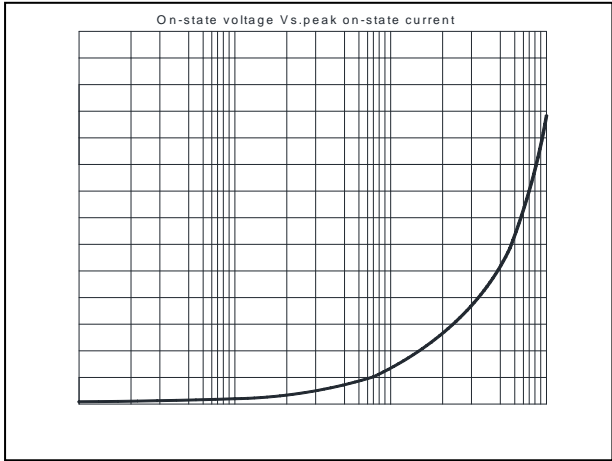
V_{RRM} = Repetitive peak reverse voltage

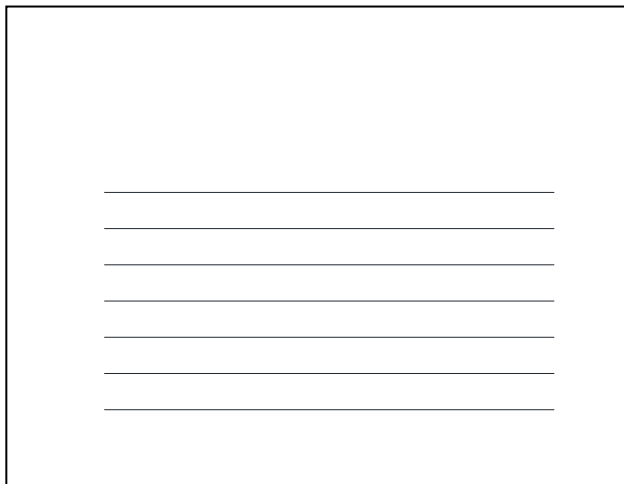
V_{RSM} = Non repetitive peak reverse voltage (2)

Repetitive peak reverse leakage current	I_{RRM}	2 mA 75 mA (3)
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Conducting - on state

Parameter	Symbol	Min.	Max.	Typ.	Units	Conditions
Average forward current	$I_{F(AV)}$		13500		A	Sinewave 180°, T _c =85
RMS forward current	I_{FRMS}		21195		A	
Peak one cycle surge (non repetitive) current	I_{FSM}		85000		A	Pulse width 10 msec, sinusoidal wave-shape, 180° conduction, T _j = 180
I square t	I^2t		36y 10 ⁶		A ² s	Pulse width 10 msec, sinusoidal wave-shape, T _j = 180
Peak forward voltage	V_{FM}		1.0		V	I_{FM} = 5000A; T _j =25°C
Threshold voltage	V_{FO}		0.758		V	T _j =180°C
Slope resistance	r_F		0.021		m	T _j =180°C
Reverse Recovery Current						





CASE OUTLINE AND DIMENSIONS