

# ZY1350 WELDING DIODE

2014 RR

## DIODE

### Features:

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

## ELECTRICAL CHARACTERISTICS AND RATINGS

### Reverse Blocking

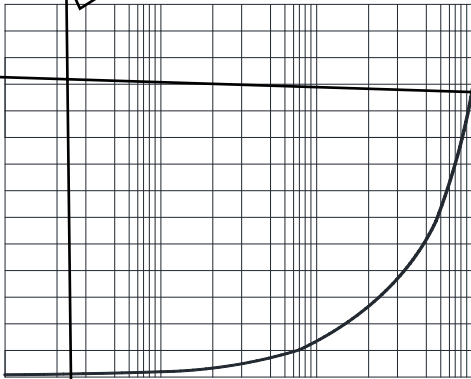
$V_{RRM}$  = Repetitive peak reverse voltage  
 $V_{RSM}$  = Non repetitive peak reverse voltage (2)

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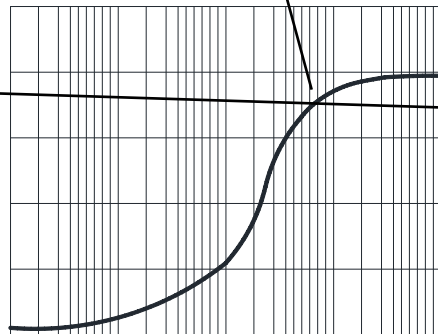
### Conducting - on state

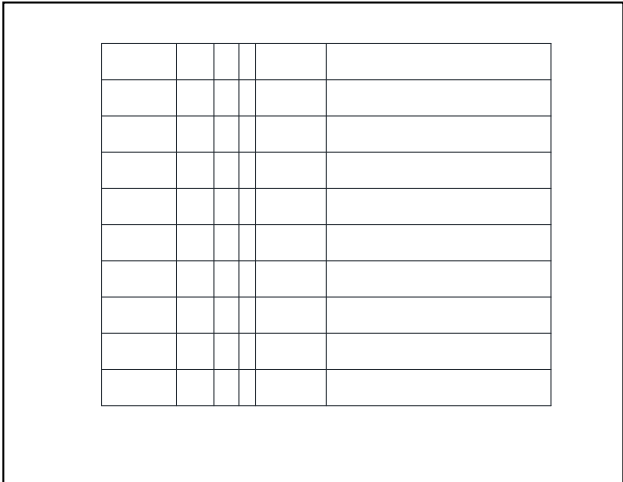
Parameter	Symbol	Min.	Max.	Typ.	Units	Conditions
Average forward current	$I_{F(AV)}$		13500		A	Sinewave 180°, Tc =85
RMS forward current	$I_{FRMS}$		21195		A	
Peak one cycle surge (non repetitive) current	$I_{FSM}$		85000		A	Pulse width 10 msec, sinusoidal wave-shape, 180° conduction, Tj = 180
I square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

On-state voltage Vs.peak on-state current



Max. junction to case thermal impedance Vs.time





CASE OUTLINE AND DIMENSIONS