

# ZK1100- FAST RECOVERY DIODE

2400-3000V<sub>RRM</sub>

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**FAST RECOVERY RECTIFIER DIODE**

**Features:**

**D8C**

- . All diffused structure
- . High surge rating
- . Blocking capability up to 3000 volts
- . Soft recovery
- . Ceramic housing hermetic package
- . Pressure assembled device

**ELECTRICAL CHARACTERISTICS AND RATINGS**

**Reverse Blocking**

Repetitive peak reverse leakage current	$I_{RRM}$	15 mA 50 mA (3)
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**Conducting - on state**

Parameter	Symbol	Min.	Max.	Typ.	Units	Conditions
Average forward current	$I_{F(AV)}$		1100		A	Sinewave 180°, Tc =70
RMS forward current	$I_{FRMS}$		1727		A	
Peak one cycle surge (non repetitive) current	$I_{FSM}$		16500		A	10 msec (50Hz), sinusoidal wave-shape, 180° conduction, Tj =125
I square t	$I^2t$		13.6 10 <sup>5</sup>		A <sup>2</sup> s	8.3 msec and 10.0 msec
Peak forward voltage	$V_{FM}$		2.60		V	$I_{FM}= 3000A$ ; Duty cycle 0.01%
Threshold voltage	$V_{FO}$		1.30		V	Tj=125°C, I=0.5 $I_{F(AV)}$ to 1.5 $I_{F(AV)}$

Slope res â

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**CASE OUTLINE AND**

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