

ZK2500- FAST RECOVERY DIODE

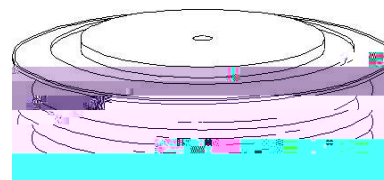
2400-3000V_{RRM}

FAST RECOVERY RECTIFIER DIODE

Features:

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

D13C



ELECTRICAL CHARACTERISTICS AND RATINGS

Reverse Blocking

Repetitive peak reverse leakage current	I_{RRM}	15 mA 80 mA (3)
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Conducting - on state

Parameter	Symbol	Min.	Max.	Typ.	Units	Conditions
Average forward current	$I_{F(AV)}$		2500		A	Sinewave 180°, $T_c = 70$
RMS forward current	I_{FRMS}		3925		A	
Peak one cycle surge (non repetitive) current	I_{FSM}		38000		A	10 msec (50Hz), sinusoidal wave-shape, 180° conduction, $T_j = 125$
I square t	I^2t		72.2 10 ⁵		A ² s	8.3 msec and 10.0 msec
Peak forward voltage	V_{FM}		2.40		V	$I_{FM} = 3000A$; Duty cycle 0.01%
Threshold voltage	V_{FO}		1.02		V	$T_j = 125^\circ C, I = 0.5 I_{F(AV)}$ to 1.5 $I_{F(AV)}$
Slope resistance	r_F		0.2		m Ω	$T_j = 125^\circ C, I = 0.5 I_{F(AV)}$ to 1.5 $I_{F(AV)}$
Reverse Recovery Current (4)	$I_{RM(REC)}$		*		A	
Reverse Recovery Charge (4)	Q_{rr}		*		>C	
Reverse Recovery Time (4)	t_{rr}		8		>S	

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