

WQP

ZK2200- FAST RECOVERY DIODE

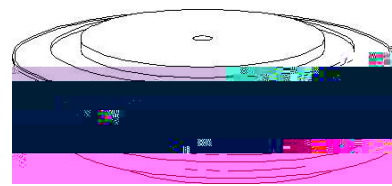
4000-4500V_{RRM}

FAST RECOVERY RECTIFIER DIODE

Features:

- . All diffused structure
- . High surge rating
- . Blocking capability up to 4500 volts
- . Soft recovery
- . Ceramic housing hermetic package
- . Pressure assembled device

D13C



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}	10 mA 150 mA (3)
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Conducting - on state

Parameter	Symbol	Min.	Max.	Typ.	Units	Conditions
Average forward current	I _{F(AV)}		2200		A	Sinewave 180°, Tc =70
RMS forward current	I _{FRMS}		3454		A	
Peak one cycle surge (non repetitive) current	I _{FSM}		33000		A	10 msec (50Hz), sinusoidal wave-shape, 180° conduction, Tj =125
I square t	I ² t		54.4	10 ⁵	A ² s	8.3 msec and 10.0 msec
Peak forward voltage	V _{FM}		3.0		V	I _{FM} = 3000A; Duty cycle 0.01%
Threshold voltage	V _{FO}		1.10		V	Tj=125°C, I=0.5 I _{F(AV)} to 1.5 I _{F(AV)}
Slope resistance	r _F		0.25		m	Tj=125°C, I=0.5 I _{F(AV)} to 1.5 I _{F(AV)}
Reverse Recovery Current (4) d	I _{RM(REC)}		*		A	I _{FM} = 1000 A

On-state

