

ZK500-RECTIFIER DIODE

Jiangsu Yangjie Runau Semiconductor Co.,Ltd

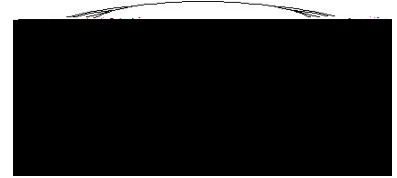
4000-4500 V_{RRM}

FAST RECOVERY RECTIFIER DIODE

Features:

ZT40cT

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



ELECTRICAL CHARACTERISTICS AND RATINGS

Reverse Blocking

V_{RRM} = Repetitive peak reverse voltage

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

Repetitive peak reverse current	I _{RRM}	10 mA 15 mA (3)
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Conducting - on state

Parameter	Symbol	Min.	Max.	Typ.	Units	Conditions
Average forward current	I _{F(AV)}		500		A	Sinewave 180°, T _c = 70
RMS forward current	I _{FRMS}		785		A	
Peak one cycle surge (non repetitive) current	I _{FSM}		7500		A	10 msec (50Hz), sinusoidal wave-shape, 180° conduction, T _j = 125
I square t	I ² t		4.0x10 ⁵		A ² s	8.3 msec and 10.0 msec
Peak forward voltage	V _{FM}		4.00		V	I _{FM} = 1000A; Duty cycle 0.01%
Reverse Recovery Current (4)	I _{RM(REC)}		*		A	I _{FM} = 1000 A; dI _F /dt = 10 A/ s; T _j max

Reverse Recovery Charge (4)

