ZK2500-RECTIFIER DIODE

Jiangsu Yangjie Runau Semiconductor Co.,Ltd **2000-3000 V_{RRM}**

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FAST RECOVERY RECTIFIER DIODE

Features:

ZT80cT

- . 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

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

Repetitive peak reverse leakage current	I_{RRM}	15 mA 80 mA (3)

Conducting - on state

Parameter	Symbol	Min.	Max.	Typ.	Units	Conditions
Average forward current	$I_{F(AV)}$		2500		A	Sinewave180º,Tc =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, 180º conduction, Tj = 125
I square t	I^2t		7220000		A^2s	8.3 msec and 10.0 msec
Peak forward voltage	V_{FM}		2.40		V	I_{FM}= 3000A; Duty cycle 0.01%
Reverse Recovery Current (4)	$I_{RM(REC)}$		*		A	I_{FM} = 1000 A; dIF/dt = 10 A/ s;Tjmax
Reverse Recovery Charge (4)	Q_{rr}		*		μC	I_{FM} = 1000 A; dIF/dt = 10 A/ s;Tjmax
Reverse Recovery Time (4)	t_{rr}		8		μs	I_{FM} = 1000 A; dIF/dt = 10 A/ s;Tjmax

***** For guaranteed maximum values, contact factory