

ZP800- RECTIFIER DIODE

Jiangsu Yangjie Runau Semiconductor Co.,Ltd

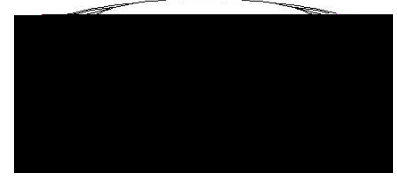
2500-3500V_{RRM}

GENERAL PURPOSE HIGH POWER STANDARD RECTIFIER

Features:

ZT40cT

- . All diffused structure
- . High surge rating
- . Blocking capability up to 3500 volts
- . 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}	2 mA 40 mA (3)
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Conducting - on state

Parameter	Symbol	Min.	Max.	Typ.	Units	Conditions
Average forward current	$I_{F(AV)}$		800		A	Sinewave 180°, $T_c = 90$
RMS forward current	I_{FRMS}		1256		A	Nominal value
Peak one cycle surge (non repetitive) current	I_{FSM}		11200		A	10 msec (50Hz), sinusoidal wave-shape, 180° conduction, $T_j = 150$
I square t	I^2t		$62 \cdot 10^4$		A ² s	10 msec
Peak forward voltage	V_{FM}		1.7		V	$I_{FM} = 1500A; T_j = 25^\circ C$
Threshold voltage	V_{FO}		0.88		V	$T_j = 150^\circ C, I = 0.5 I_{F(AV)}$ to 1.5 $I_{F(AV)}$
Slope resistance	r_F		0.45			$T_j = 150^\circ C, I = 0.5 I_{F(AV)}$ to 1.5 $I_{F(AV)}$
Reverse Recovery Current (4)	$I_{RM(REC)}$				A	$I_{FM} = 500 A; di/dt = -10 A/s; T_{jmax}$
Reverse Recovery Charge (4)	Q_{rr}			3000	C	$I_{FM} = 500 A; di/dt = -10 A/s; T_{jmax}$
Reverse Recovery Time (4)	t_{rr}					

