

ZP800- RECTIFIER DIODE

Jiangsu Yangjie Runau Semiconductor Co.,Ltd

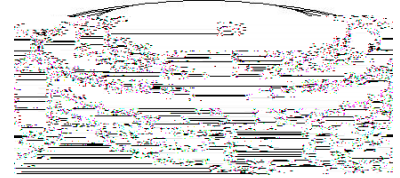
2500-3500V_{RRM}

GENERAL PURPOSE HIGH POWER STANDARD RECTIFIER

Features:

- . All diffused structure
- . High surge rating
- . Blocking capability up to 3500 volts
- . Ceramic housing hermetic package
- . Pressure assembled device

ZT40cT



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
	I_{FSM}		11200		A	10 msec (50Hz), sinusoidal wave-shape, 180° conduction, T _j = 150
	I^2t		62 10 ⁴		A ² s	10 msec
	V_{FM}		1.7		V	$I_{FM} = 1500A; T_j = 25^\circ C$
	V_{FO}		0.88		V	T _j = 150°C, I = 0.5 I _{F(AV)} to 1.5 I _{F(AV)}
	r_F		0.45			T _j = 150°C, I = 0.5 I _{F(AV)} to 1.5 I _{F(AV)}
t (4)	$I_{RM(REC)}$				A	$I_{FM} = 500 A; di/dt = -10 A/s; T_{jmax}$
e (4)	Q_{rr}			3000	C	$I_{FM} = 500 A; di/dt = -10 A/s; T_{jmax}$
4)	t_{rr}					s 0 g0 057 EMC /P 38525 ref BC 48.05 158.18.508 1 re

