

ZP500A-B



STANDARD RECOVERY DIODE

Features

- Low forward voltage drop
- Soft recovery
- Hermetic metal cases with ceramic insulators

Application

- Inverters and choppers
- AC. motor control
- Snubber and free-wheeling diodes

$I_{F(AV)}$	500A
V_{RRM}	200-1000V
I_{FSM}	7KA
I^2t	250KA ² S

SYMBOL		PARAMETERS	TESTING CONDITION	$T_j(^{\circ}C)$	VALUES	U NI T
Current Tatings	$I_{F(AV)}$	average forward current	180° half sine wave 50Hz Double side cooled, $T_{hs}=120^{\circ}C$	150	500	A
	$I_{F(AV)}$	average forward current	180° half sine wave 50Hz Double side cooled, $T_{hs}=55^{\circ}C$	150	1202	A
	I_{FSM}	Surge forward current	10ms half sine wave $V_R=0.6V_{RRM}$	150	7	KA
	I^2t	I^2t for fusing coordination		150	250	KA ² S
Characteristics	V_{RRM}	Repetitive peak reverse voltage	$V_{RRM} t_p=10ms$ $V_{RSM}=V_{RRM}+100V$	150	200-1000	V
	I_{RRM}	Repetitive peak current	$V_{RM}=V_{RRM}$	150	Max.40	Ma
	V_{FM}	Peak on-state voltage	$I_{TM}=1500A, F=15KN$	25	Max.1.8	V
	V_{FO}	Threshold voltage		150	Max.1.06	V
	r_F	Forward slop resistance			Max.0.31	mΩ
	I_{rm}	Reverse recovery current	$I_{TM}=600A, t_p=1000\mu s,$ $di/dt=-20A/\mu s, V_r=50V$	100		A
	t_{rr}	Reverse recovery time				μs
Q_{rr}	Recovery charge				μc	
Thermal &Mechanical Date	$R_{th(j-h)}$	Thermal resistance Junction to heat sink	At 180° sine, double side cooled mounting force 15KN		Max.0.040	°C/ W
	F_m	Mounting force			10 -20	KN
	T_{stg}	Stored temperature			-40-160	°C
	W_t	Weight			110	g

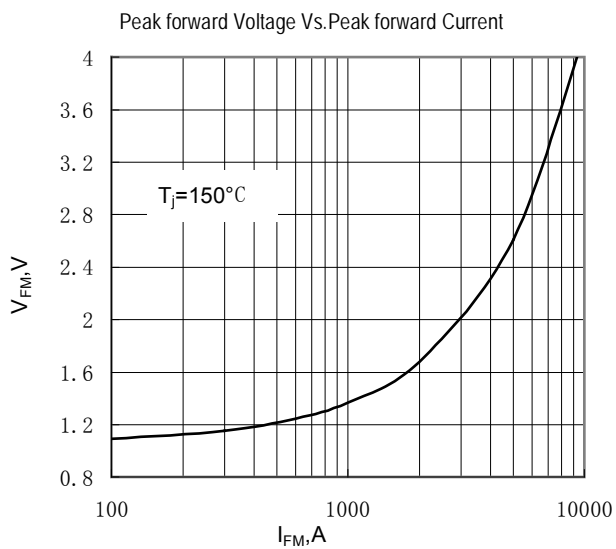


Fig.1

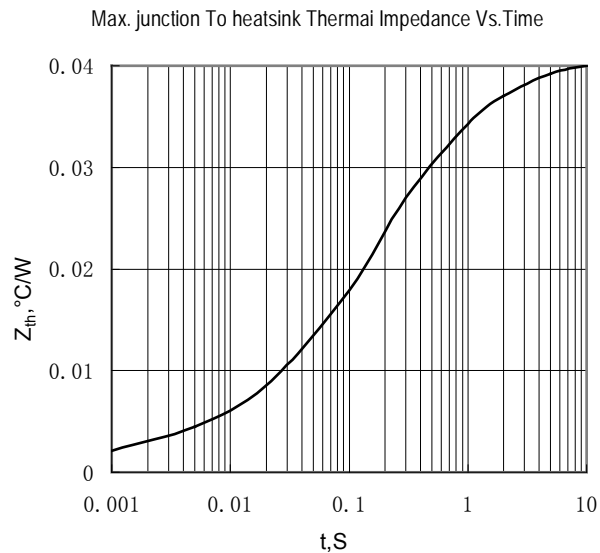


Fig.2

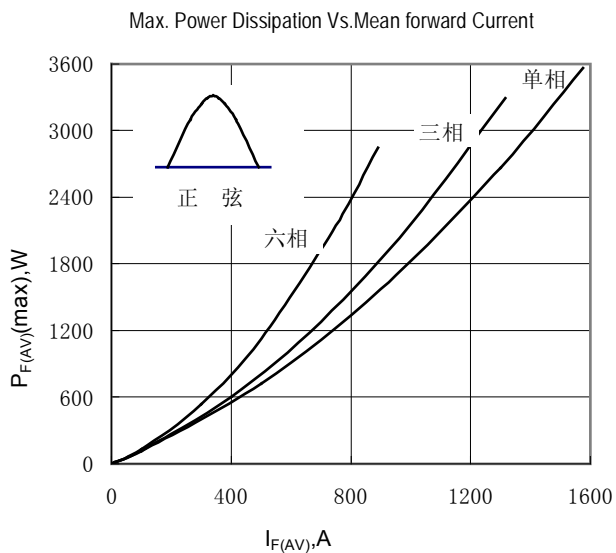


Fig.3

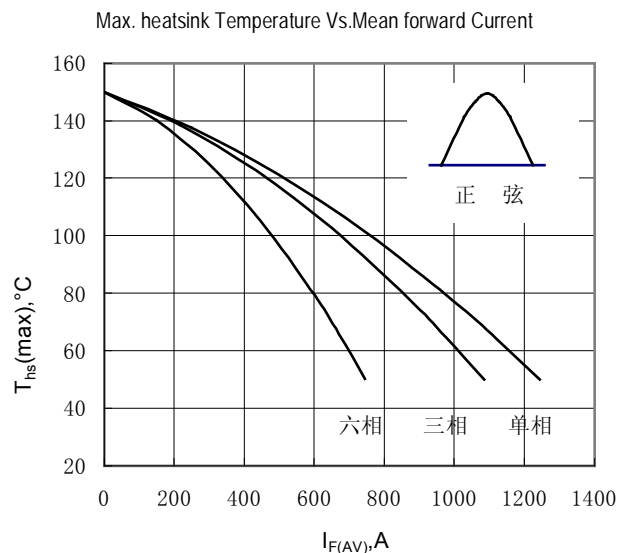


Fig.4

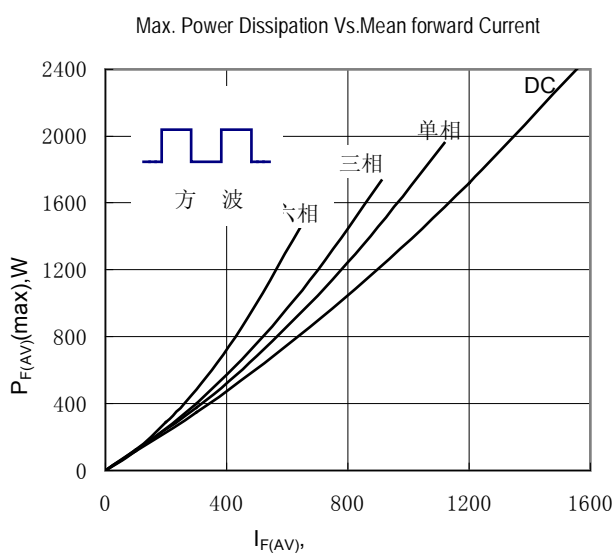


Fig.5

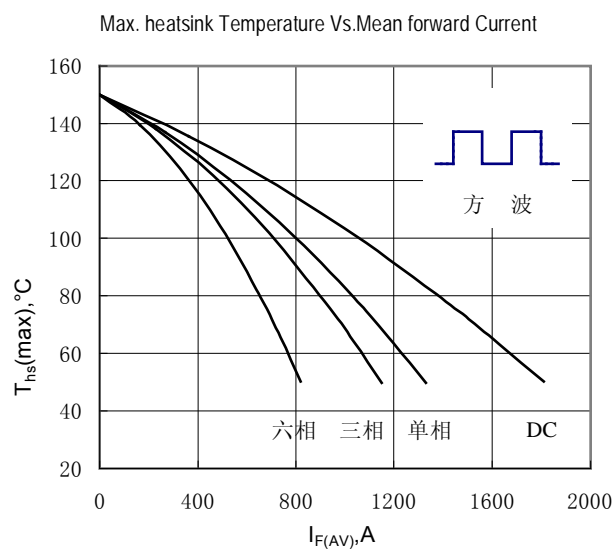


Fig.6

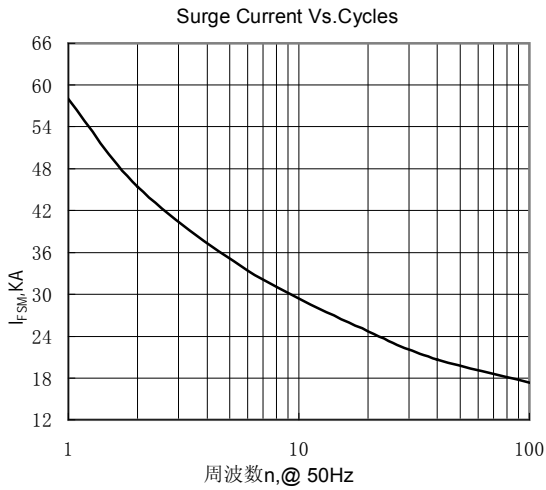


Fig.7

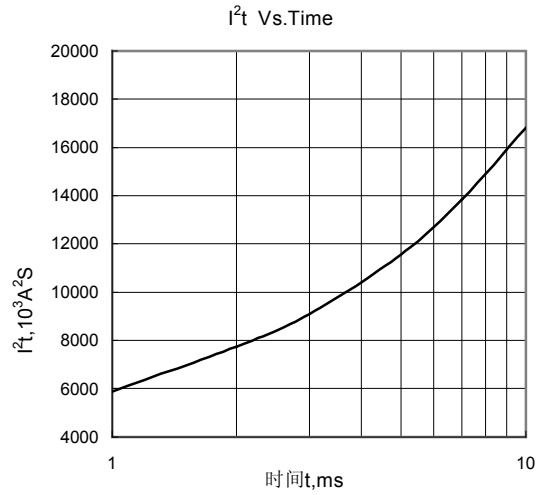
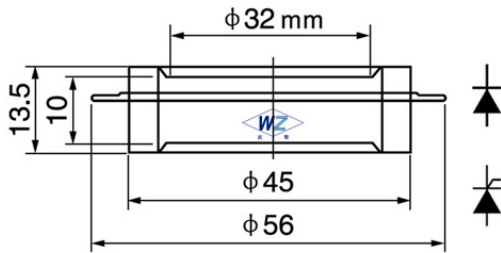


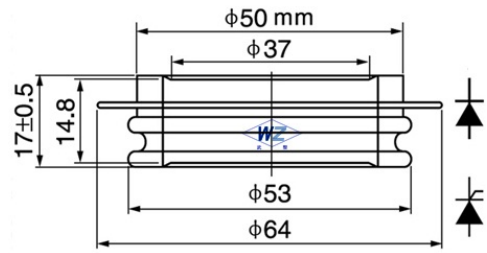
Fig.8

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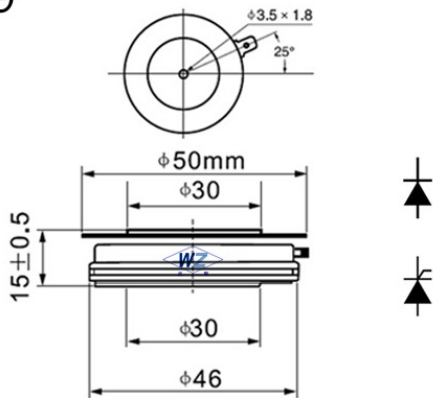
C3



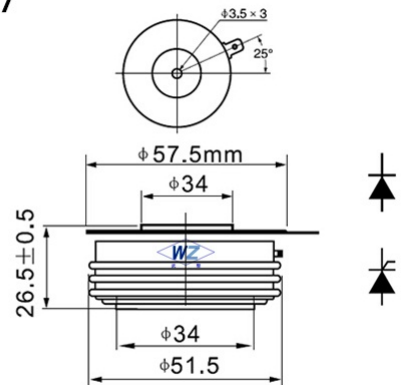
C4



C9



C17



Wuhan Wuzheng Rectifier Co., Ltd

Add: NO. 73 Gaoxin Five Road, East Lake New Technology Development Zone, Wuhan City, Hubei province.

Tel : 86-27-87001995

Fax: 86-27-87180920

Email: info@techele.com

Web: www.techele.com/en

cntechele.en.alibaba.com