

ZP5000A-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

$I_{F(AV)}$	5000A
V_{RRM}	1100-2000V
I_{FSM}	35KA
I^2t	16800KA ² S

SYMBOL		PARAMETERS	TESTING CONDITION	$T_j(^{\circ}C)$	VALUES	UNIT
Current Tatings	$I_{F(AV)}$	average forward current	180° half sine wave 50Hz Double side cooled, $T_{hs}=63^{\circ}C$	170	5000	A
	$I_{F(AV)}$	average forward current	180° half sine wave 50Hz Double side cooled, $T_{hs}=55^{\circ}C$	170	5225	A
	I_{FSM}	Surge forward current	10ms half sine wave	170	58	KA
	I^2t	I^2t for fusing coordination	$V_R=0.6V_{RRM}$	170	16800	KA ² S
Characteristics	V_{RRM}	Repetitive peak reverse voltage	$V_{RRM} t_p=10ms$ $V_{RSM}=V_{RRM}+100V$	170	200-1000	V
	I_{RRM}	Repetitive peak current	$V_{RM}=V_{RRM}$	170	Max.100	Ma
	V_{FM}	Peak on-state voltage	$I_{TM}=5000A, F=32KN$	25	Max.1.2	V
	V_{FO}	Threshold voltage		170	Max.0.98	V
	r_F	Forward slop resistance			Max.0.31	mΩ
	I_{TM}	Reverse recovery current	$I_{TM}=1000A, t_p=1000\mu s,$ $di/dt=-20A/\mu s, V_r=50V$	170	Max.168	A
	t_{TR}	Reverse recovery time			Max.6.8	μs
Q_{TR}	Recovery charge	Max.571			μc	
Thermal &Mechanical Date	$R_{th(j-h)}$	Thermal resistance Junction to heat sink	At 180° sine, double side cooled mounting force 9.0KN	170	Max.0.016	°C/W
	F_m	Mounting force			27-34	KN
	T_{stg}	Stored temperature			-40-170	°C
	W_t	Weight			850	g

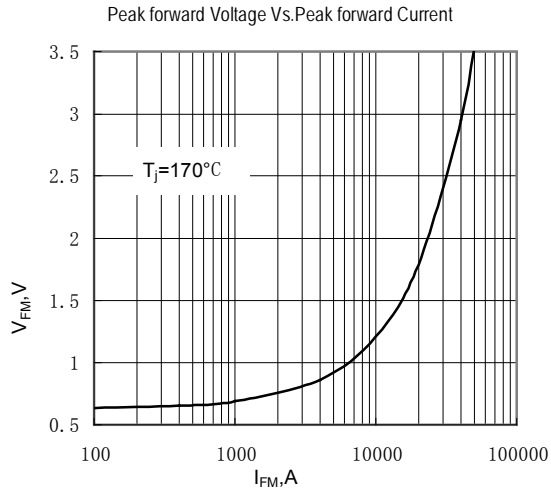


Fig.1

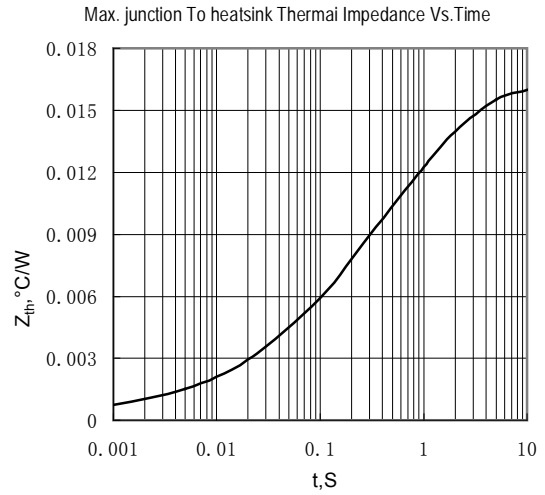


Fig.2

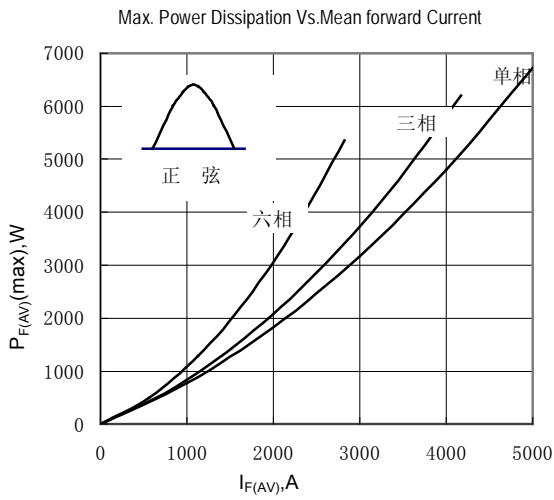


Fig.3

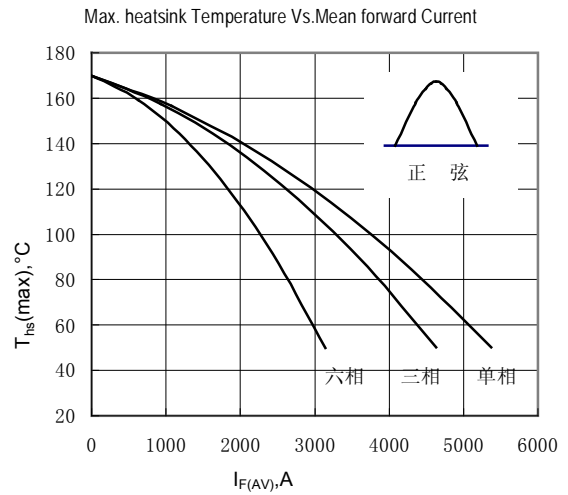


Fig.4

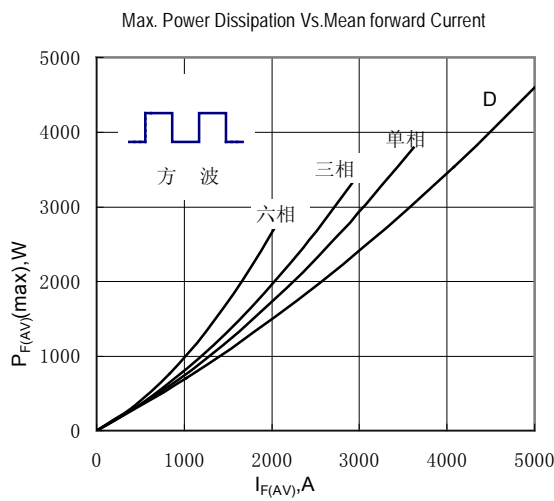


Fig.5

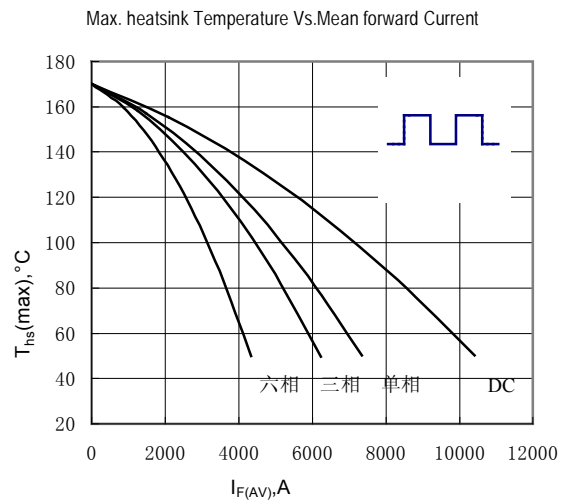


Fig.6

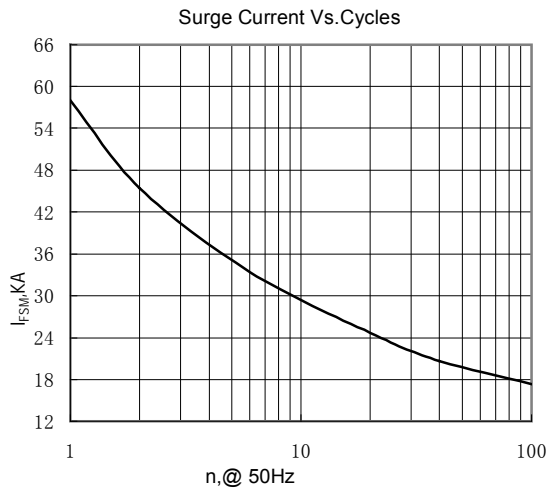


Fig.7

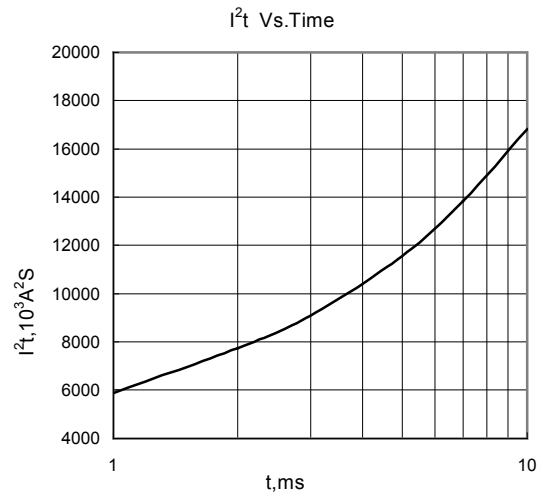
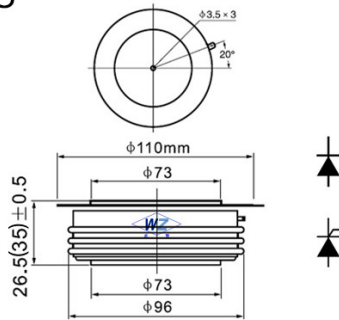


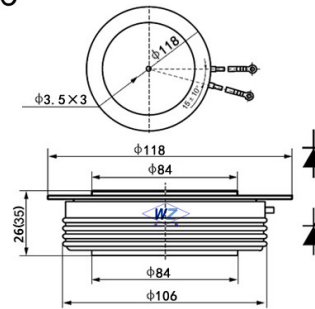
Fig.8

Dimensions:

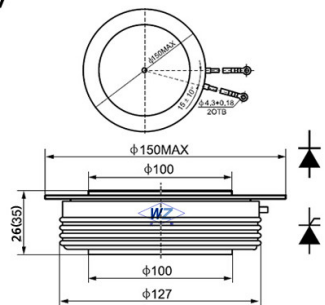
C25



C26



C27



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