

ZP2500A-C

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

$I_{F(AV)}$	2500A
V_{RRM}	1100-2000V
I_{FSM}	35KA
I^2t	6100KA 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, $T_{hs}=90^{\circ}C$	150	2500	A
	$I_{F(AV)}$	average forward current	180° half sine wave 50Hz Double side cooled, $T_{hs}=55^{\circ}C$	150	3532	A
	I_{FSM}	Surge forward current	10ms half sine wave	150	35	KA
	I^2t	I^2t for fusing coordination	$V_R=0.6V_{RRM}$	150	6100	KA ² S
Characteristics	V_{RRM}	Repetitive peak reverse voltage	$V_{RRM} t_p=10ms$ $V_{RSM}=V_{RRM}+100V$	150	1100-2000	V
	I_{RRM}	Repetitive peak current	$V_{RM}=V_{RRM}$	150	Max.120	Ma
	V_{FM}	Peak on-state voltage	$I_{TM}=5000A$, $F=32KN$	25	Max.2.0	V
	V_{FO}	Threshold voltage		150	Max.0.725	V
	r_F	Forward slop resistance			Max.0.11	mΩ
	I_{rm}	Reverse recovery current	$I_{TM}=1000A$, $t_p=1000\mu s$, $di/dt=-20A/\mu s$, $V_r=50V$	150	Max.168	A
	t_{rr}	Reverse recovery time			Max.6.8	μs
	Q_{rr}	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 32KN	150	Max.0.016	$^{\circ}C/W$
	F_m	Mounting force			27-34	KN
	T_{stg}	Stored temperature			-40-160	$^{\circ}C$
	W_t	Weight			850	g

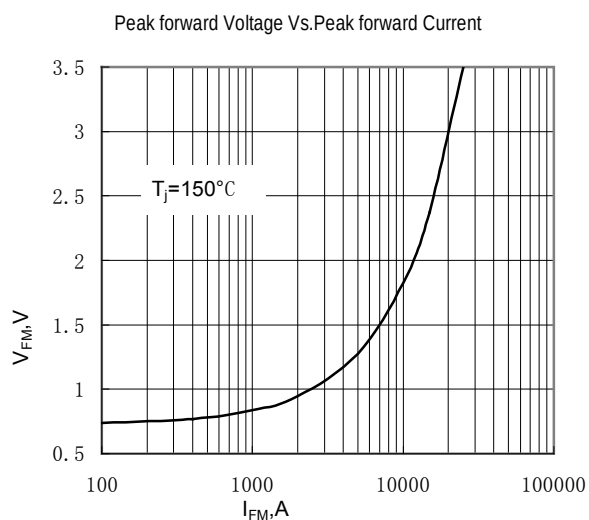


Fig.1

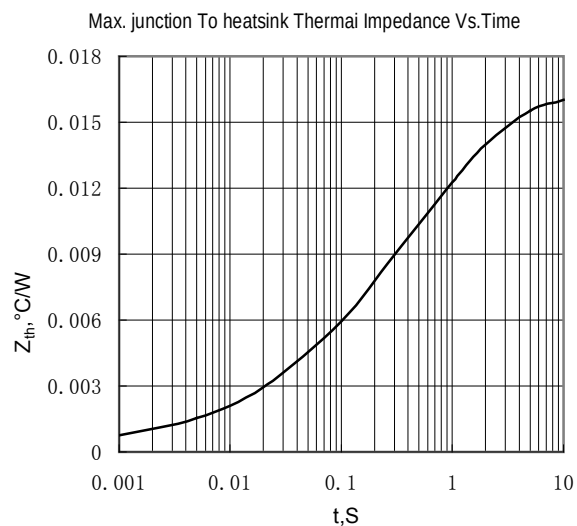


Fig.2

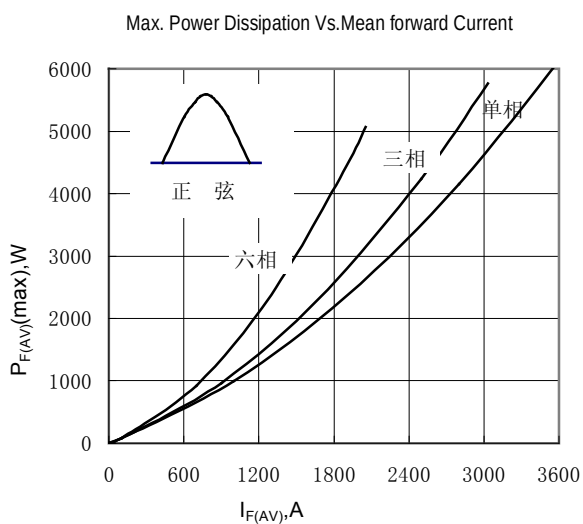


Fig.3

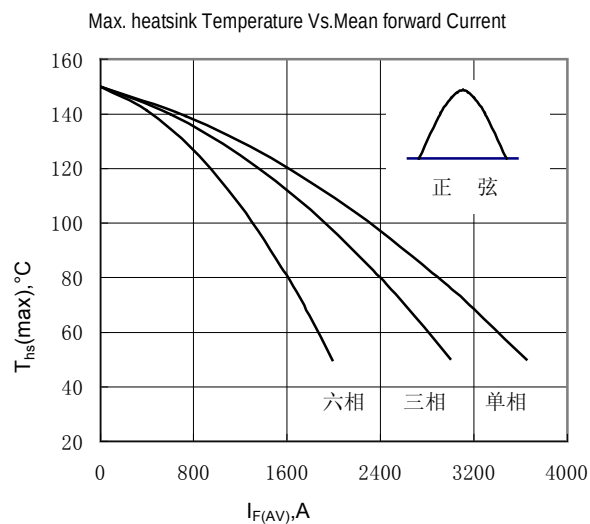


Fig.4

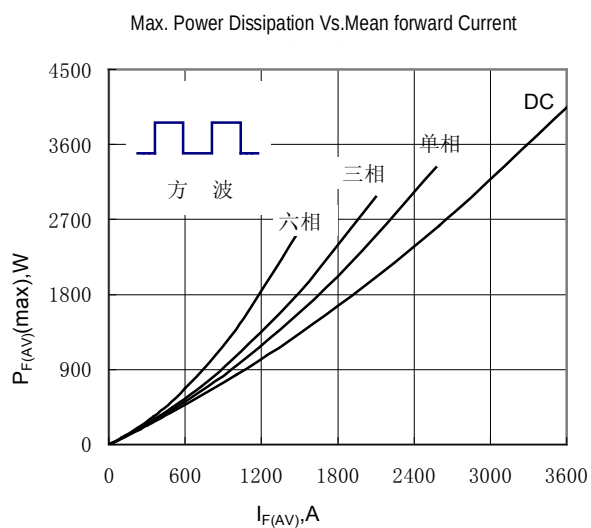


Fig.5

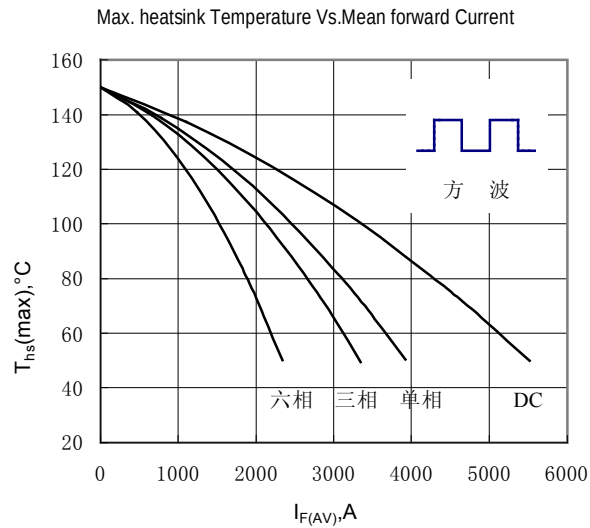


Fig.6

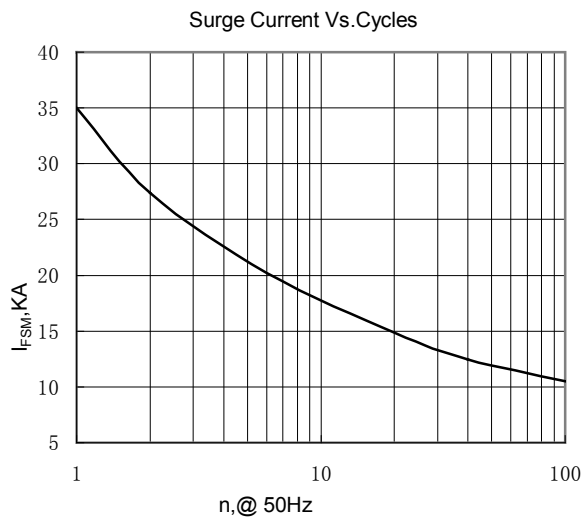


Fig.7

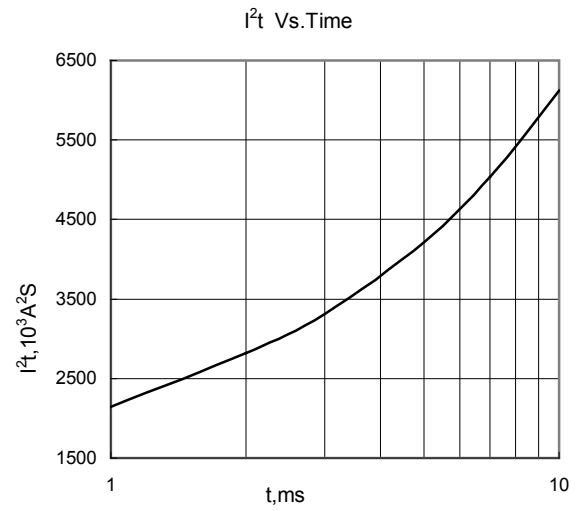
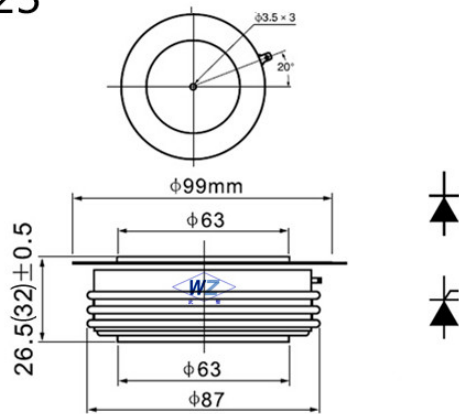


Fig.8

Dimensions:

C23



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