

ZP6300A-A

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

$I_{F(AV)}$	6300A
V_{RRM}	200-400V
I_{FSM}	55KA
I^2t	15100KA ² S

SYMBOL		PARAMETERS	TESTING CONDITION	$T_j(^{\circ}C)$	VALUES	UNIT
	$I_{F(AV)}$	average forward current	180° half sine wave 50Hz Double side cooled, $T_{hs}=102^{\circ}C$	170	6300	A
	I_{FSM}	Surge forward current	10ms half sine wave	170	55	KA
	I^2t	I^2t for fusing coordination	$VR=0.6V_{RRM}$	170	15100	KA ² S
Characteristics	V_{RRM}	Repetitive peak reverse voltage	$V_{RRM} t_p=10ms$ $V_{RSM}=V_{RRM}+100V$	170	200-400	V
	I_{RRM}	Repetitive peak current	$V_{RM}=V_{RRM}$	170	Max.50	Ma
	V_{FM}	Peak on-state voltage	$I_{TM}=5000A, F=24KN$	25	Max.1.25	V
	V_{FO}	Threshold voltage		170	Max.0.69	V
	r_F	Forward slop resistance			Max.0.042	mΩ
	I_{rm}	Reverse recovery current	$I_{TM}=1000A, t_p=1000\mu s,$ $di/dt=-20A/\mu s, V_r=50V$	170	Max.128	A
	t_{rr}	Reverse recovery time			Max5.5	μs
Q_{rr}	Recovery charge	Max.352			μc	
Thermal &Mechanical Date	$R_{th(j-h)}$	Thermal resistance Junction to heat sink	At 180° sine, double side cooled mounting force 24KN		Max.0.0135	°C/W
	F_m	Mounting force			19-26	KN
	T_{stg}	Stored temperature			-40-170	°C
	W_t	Weight				g

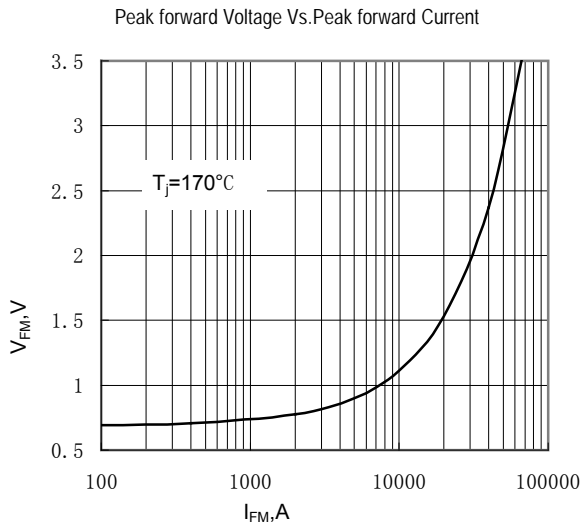


Fig.1

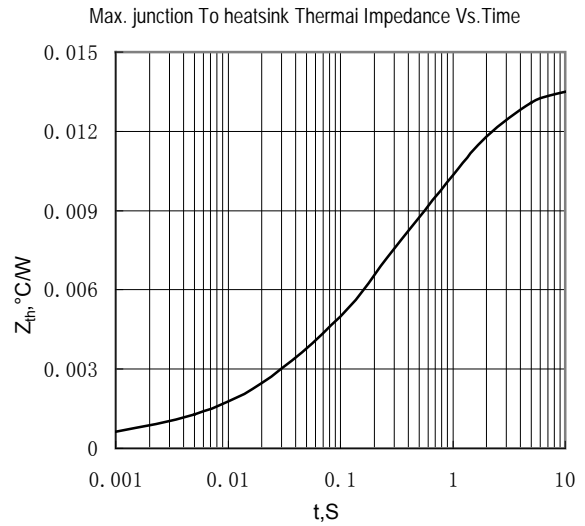


Fig.2

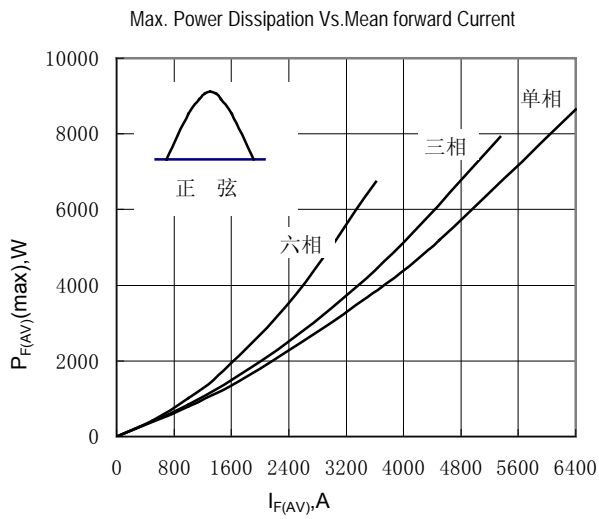


Fig.3

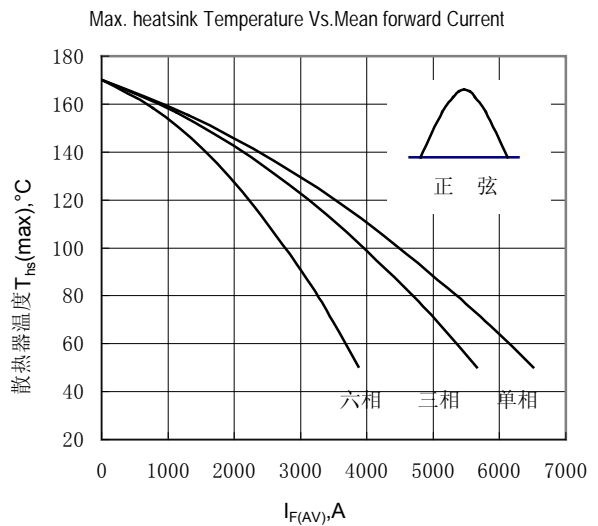


Fig.4

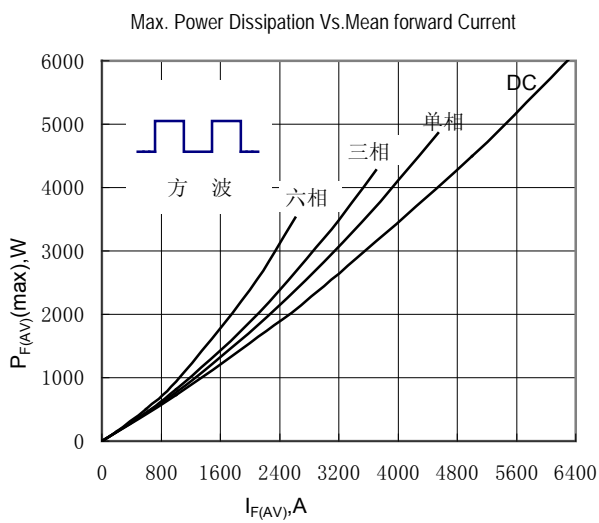


Fig.5

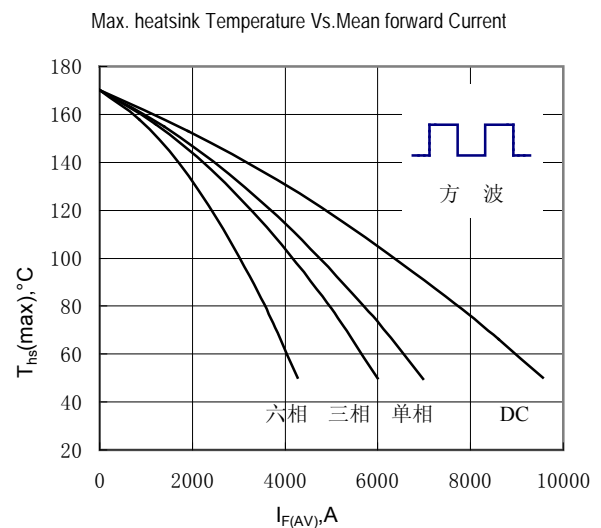


Fig.6

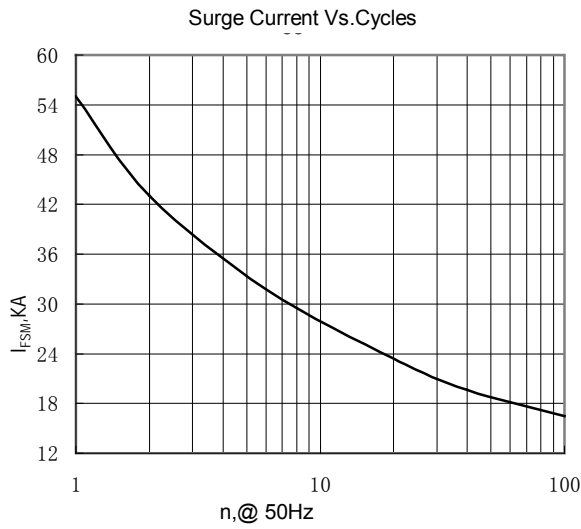


Fig.7

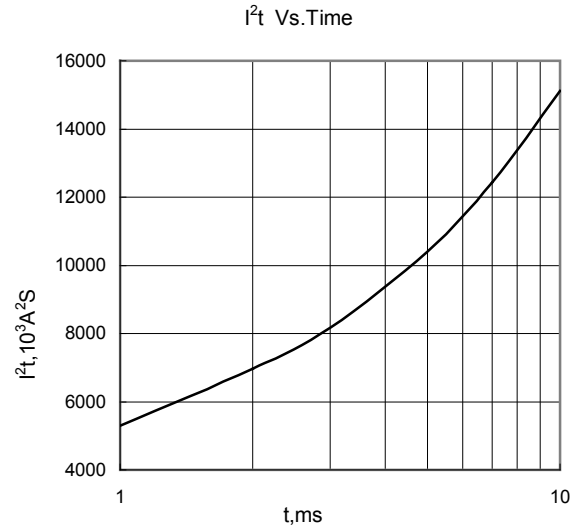
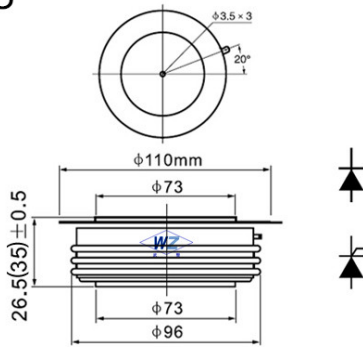


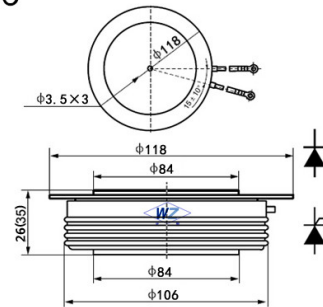
Fig.8

Dimensions:

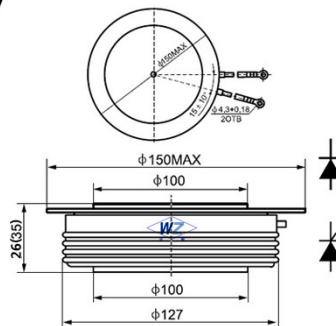
C25



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