

ZP800A-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

$I_{F(AV)}$	800A
V_{RRM}	200-1000V
I_{FSM}	11KA
I^2t	600KA ² S

SYMBOL		PARAMETERS	TESTING CONDITION	$T_j(^{\circ}C)$	VALUE S	UNIT
Current Ratings	$I_{F(AV)}$	average forward current	180° half sine wave 50Hz Double side cooled, $T_{hs}=116^{\circ}C$	150	800	A
	$I_{F(AV)}$	average forward current	180° half sine wave 50Hz Double side cooled, $T_{hs}=55^{\circ}C$	150	1651	A
	I_{FSM}	Surge forward current	10ms half sine wave	150	11	KA
	I^2t	I^2t for fusing coordination	$V_R=0.6V_{RRM}$	150	600	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	$I_{TM}=2400A, F=15KN$	25	Max.2.0	V
	V_{FO}	Threshold voltage		150	Max.0.81	V
	r_F	Forward slop resistance			Max.0.23	mΩ
	I_{TM}	Reverse recovery current	$I_{TM}=1000A, t_p=1000\mu s,$ $di/dt=-20A/\mu s, V_r=50V$	100	Max.90	A
	t_{TR}	Reverse recovery time			Max.4.2	μs
Q_{TR}	Recovery charge	Max.189			μc	
Thermal & Mechanical Data	$R_{th(j-h)}$	Thermal resistance	At 180° sine, double side cooled mounting force 15KN		Max.0.03	°C/W
		Junction to heat sink			3	
	F_m	Mounting force			10 -20	KN
	T_{stg}	Stored temperature			-40-160	°C
W_t	Weight				260	g

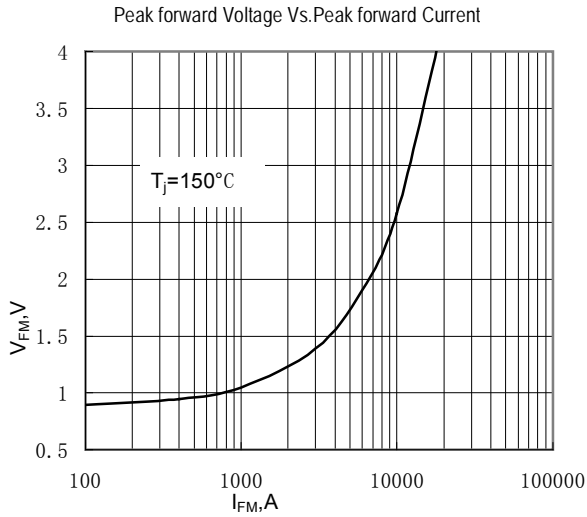


Fig.1

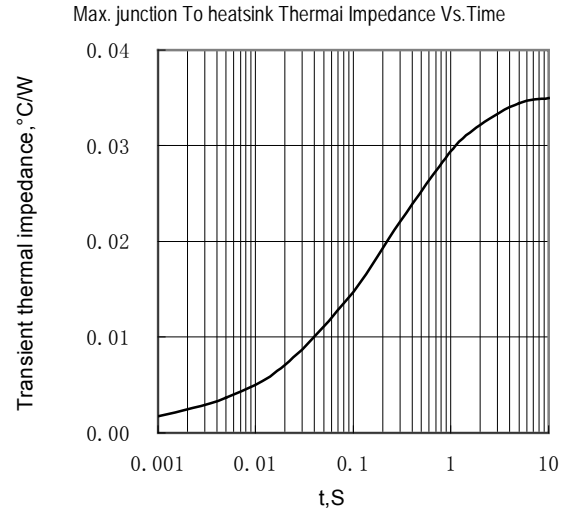


Fig.2

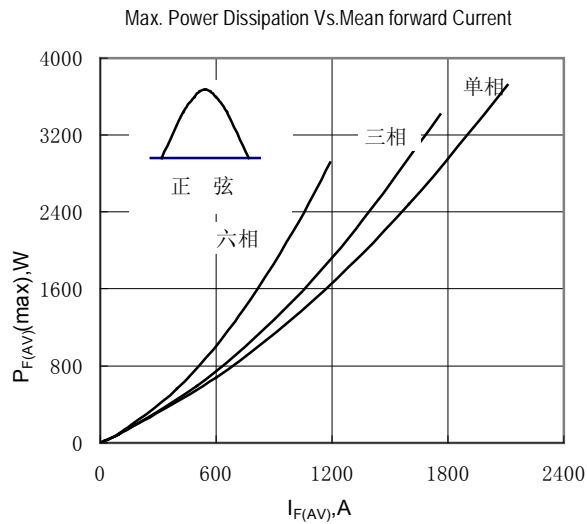


Fig.3

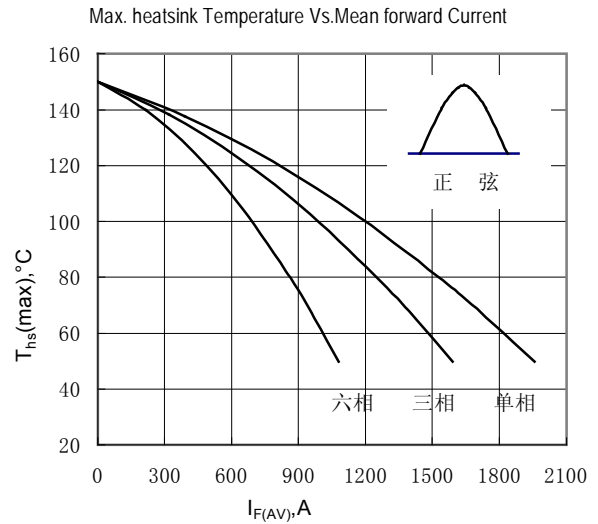


Fig.4

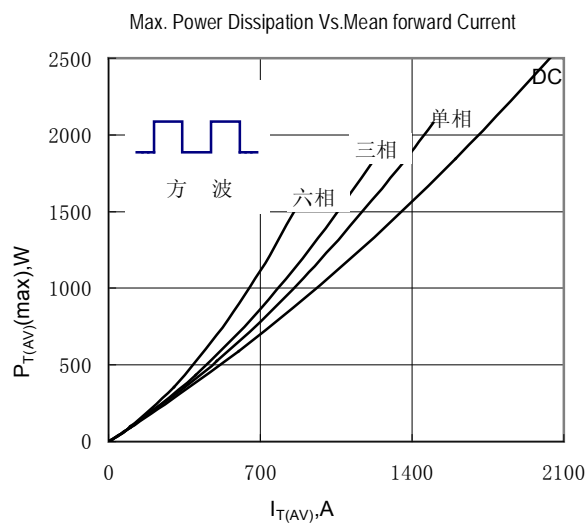


Fig.5

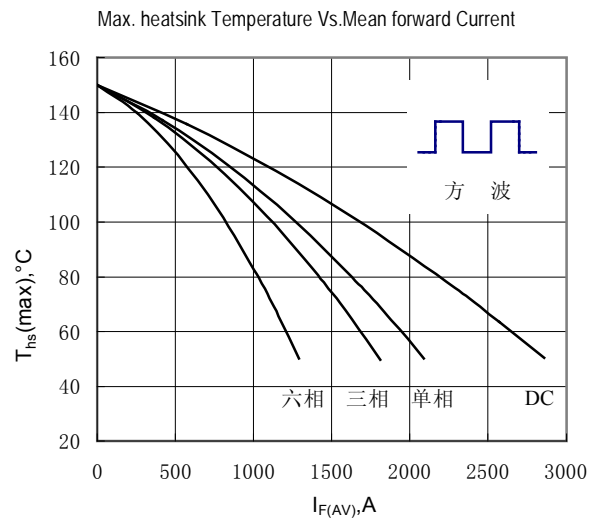


Fig.6

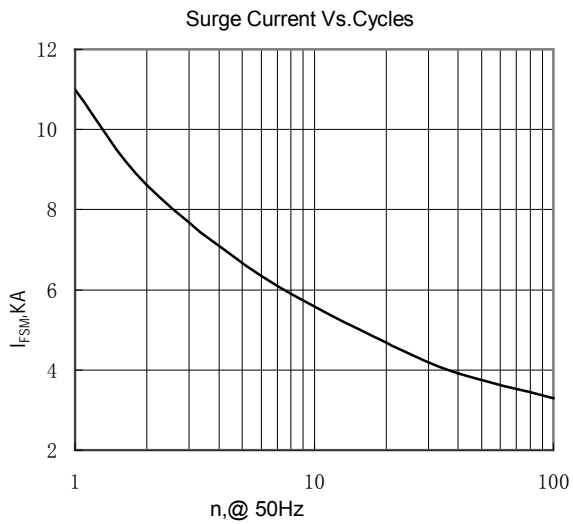


Fig.7

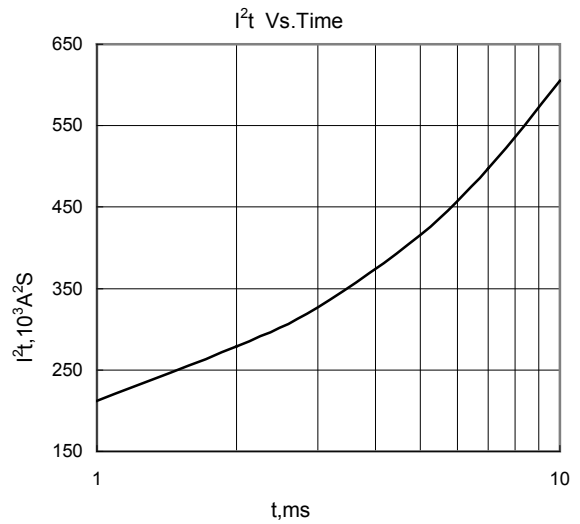
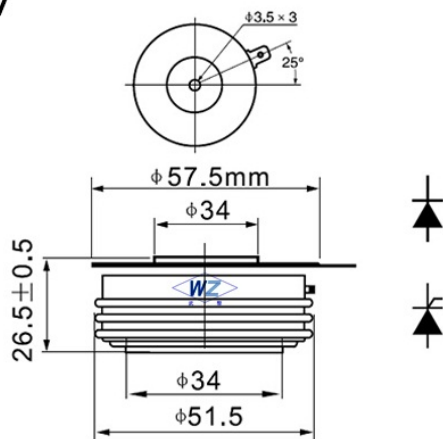


Fig.8

Dimensions:

C17



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