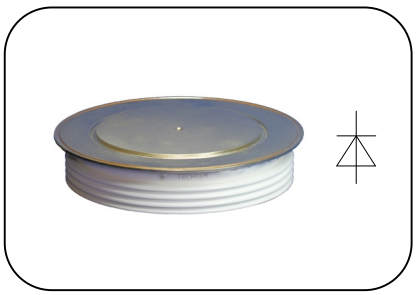


Features

Low forward voltage drop
High reverse voltage
Hermetic metal cases with ceramic insulators

Typical Applications

All purpose high power rectifier diodes
High power resistance welding equipment
Non-controllable and half-controllable rectifiers
Controlled rectifiers

Part No. H100ZPR-ZT100cT		
$I_{F(AV)}$	**4380A**	
V_{RRM}	**5200V**	**5600V**
	6000V	**6500V**

SYMBOL	CHARACTERISTIC	TEST CONDITIONS		T_j(C)	VALUE			UNIT
					Min	Type	Max	
$I_{F(AV)}$	Mean forward current	180 half sine wave 50Hz Double side cooled,	T_C=100 C	150			4380	A
V_{RRM}	Repetitive peak reverse voltage	tp=10ms		150	5100		6500	V
I_{RRM}	Repetitive peak current	at V_{RRM}		150			300	mA
I_{FSM}	Surge forward current	10ms half sine wave V_R=0.6V_{RRM}		150			57	kA
I^2t	I^2t for fusing coordination						16200	A^2s*10^3
V_{FO}	Threshold voltage			150			0.88	V
r_F	Forward slope resistance						0.16	mΩ
V_{FM}	Peak forward voltage	I_{FM}=5000A, F=108kN		25			1.70	V
Q_{rr}	Recovery charge	I_{FM}=2000A, tp=4000μs, di/dt=-20A/μs, V_R=100V		150		17000		μC
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180^0 sine double side cooled Clamping force 108kN					0.0057	C /W
$R_{th(c-h)}$	Thermal resistance case to heat sink						0.0015	
F_m	Mounting force				81		108	kN
T_{vj}	Junction temperature				-40		150	C
T_{stg}	Stored temperature				-40		160	C
W_t	Weight					2020		g
Outline	ZT100cT							

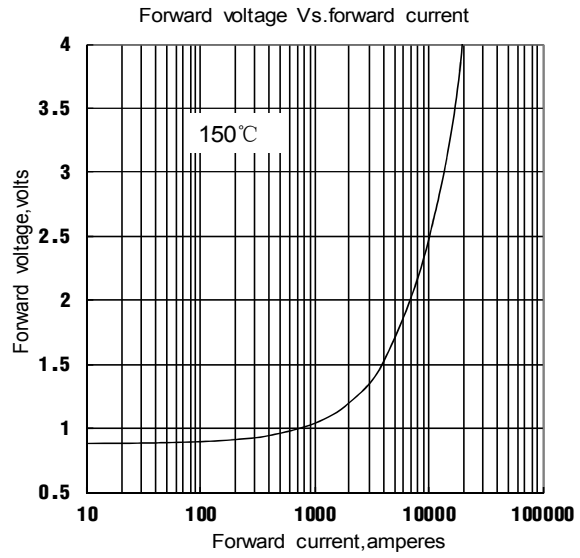


Fig.1

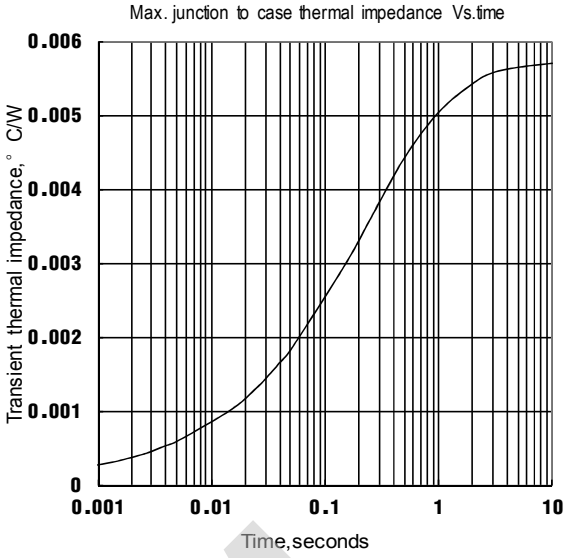


Fig.2

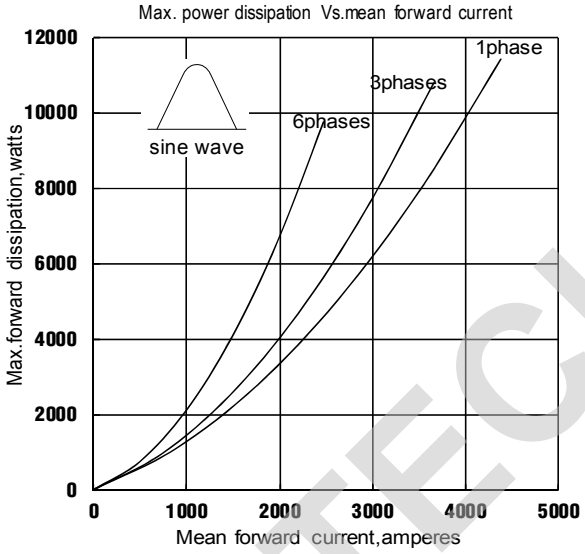


Fig.3

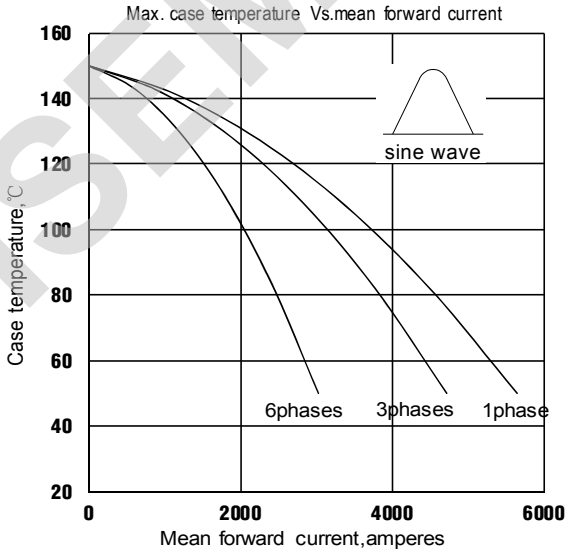


Fig.4

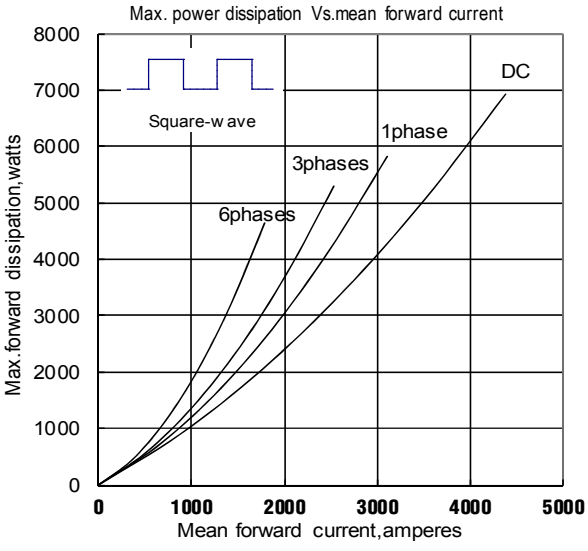


Fig.5

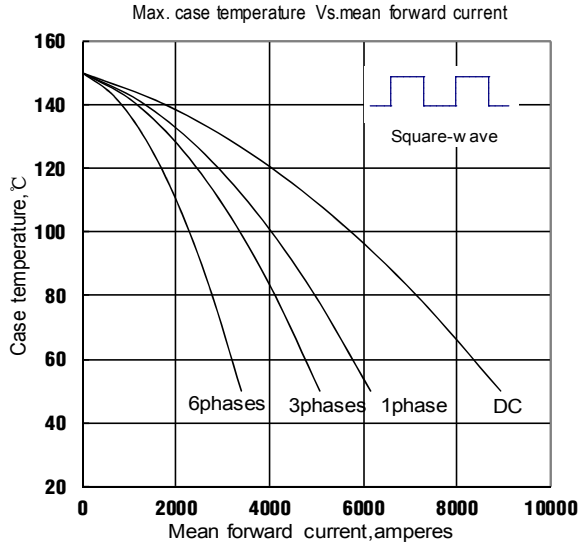


Fig.6

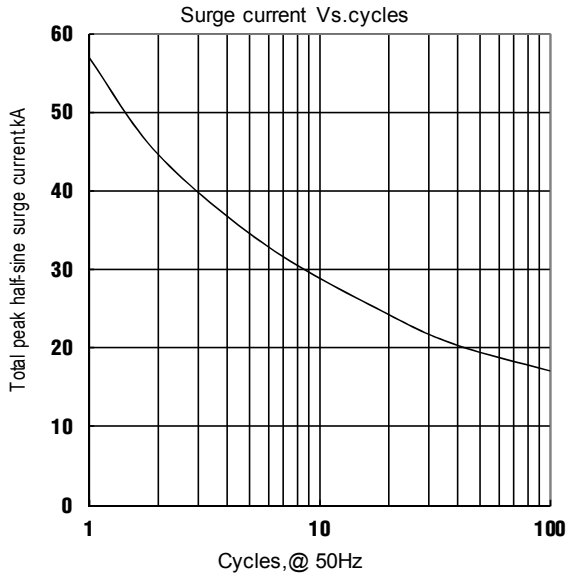


Fig.7

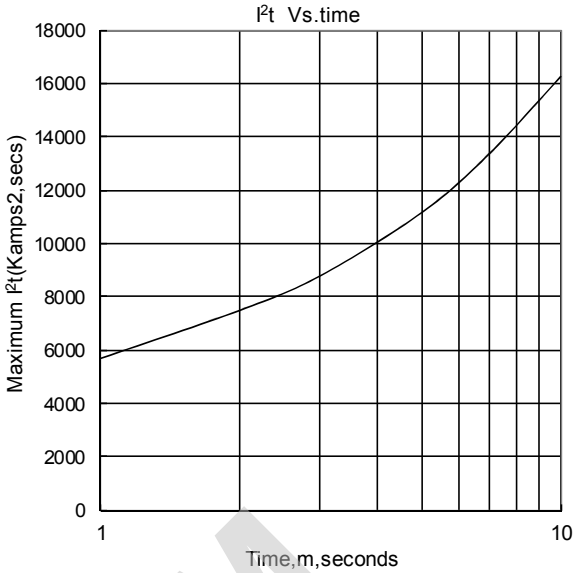
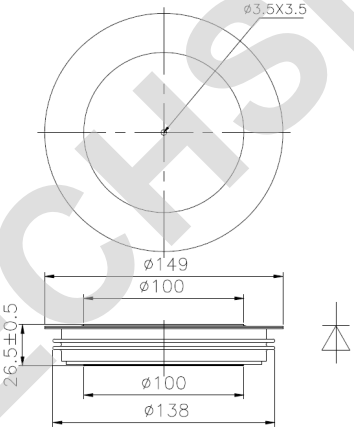


Fig.8

Outline:



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