

Feature

- Full diffusion process
- Capsule type ceramic package
- Double side cooling

Typical Application

- High power transmission
- Welding equipment
- Motor control and drive
- Battery charger

$I_{F(AV)}$	3000A
V_{RRM}	100-5000V
I_{FSM}	60 KA
I^2t	$21780 \cdot 10^3 a^2s$

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	T_J (°C)	VALUE		UNIT
				Min	Max	
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Double side cooled, THS=97°C	150		3000	A
V_{RRM}	Repetitive peak reverse voltage	$V_{DRM} \& V_{RRM} t_p=10ms$ $V_{DSM} \& V_{RSM}=V_{DRM} \& V_{RRM}+100V$	150	100	5000	V
I_{RRM}	Repetitive peak current	$V_{RM}=V_{RRM}$	150		160	mA
I_{TSM}	Surge on-state current	10ms half sine wave $V_R=0.6V_{RRM}$	150		60	KA
I^2t	I^2t for fusing coordination				2178	A^{2S*1}
V_{FO}	Threshold voltage		150		0.85	V
r_T	On-state slop resistance				0.069	mΩ
V_{FM}	Peak on-state voltage	$I_{TM}=5000A, F=15KN$	25		2.0	V
I_{RM}	Reverse recovery current	$I_{TM}=5000A, t_q=1000us$ $Di/dt=-20A/us.$ $V_f=50V$	150		150	A
t_{rr}	Reverse recovery time				8.0	us
Q_{rr}	Recovery charge				600	uC
$R_{th(j-h)}$	Thermal resistance Junction to heat sink	At 180° sine double side cooled Clamping force 5.0kn			0.016	°C/W
F_M	Mounting force			30	40	KN
T_{stq}	Stored temperature			-40	175	°C
W_t	Weight					g
Outline						

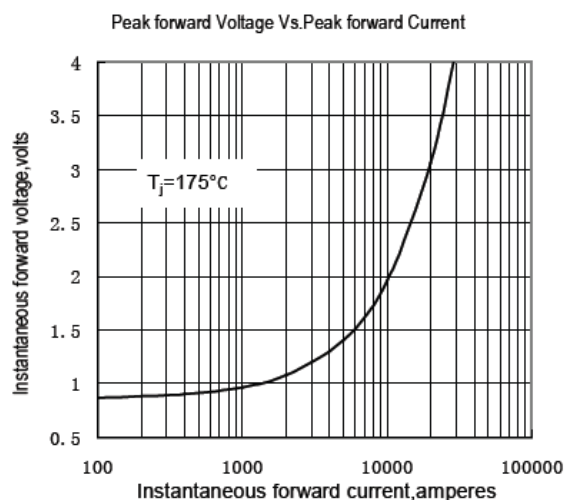


Fig.1

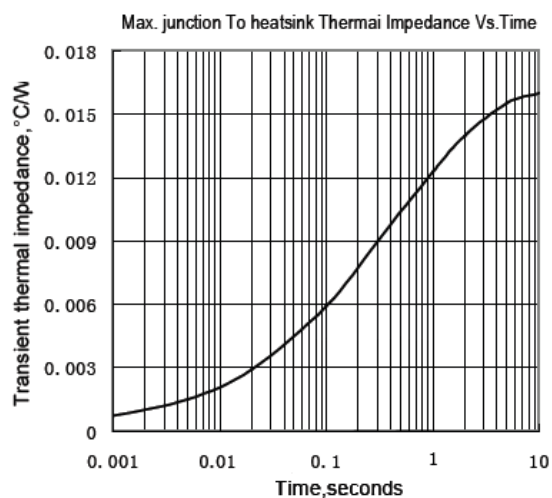


Fig.2

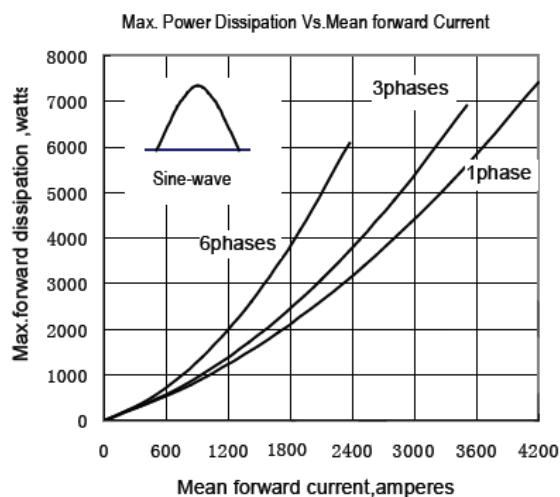


Fig.3

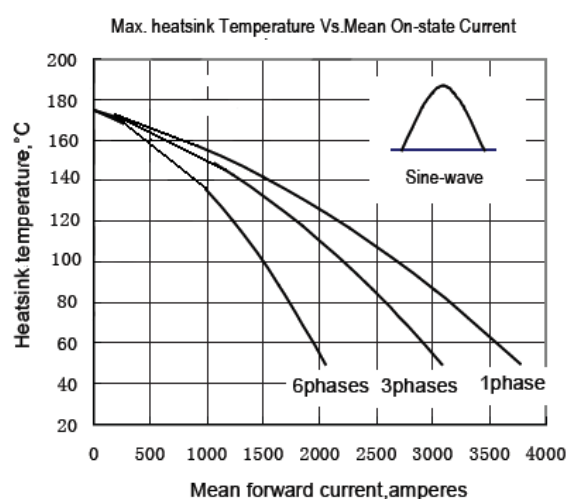


Fig.4

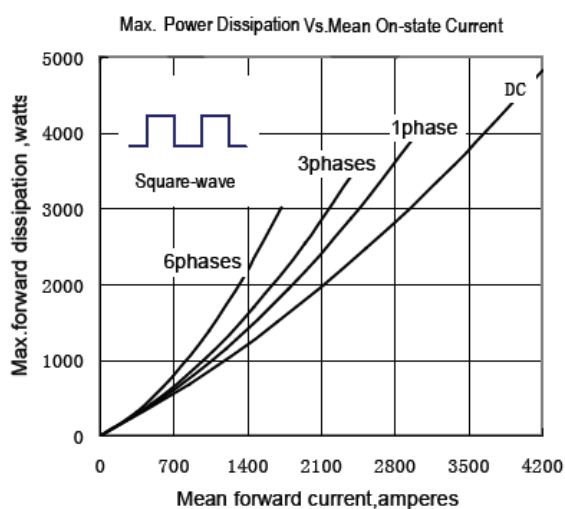


Fig.5

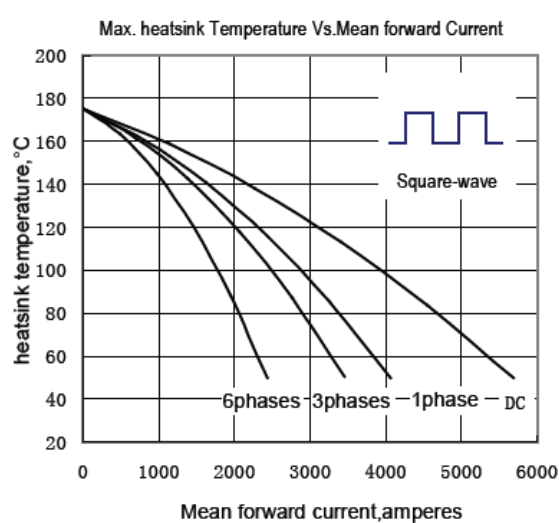


Fig.6

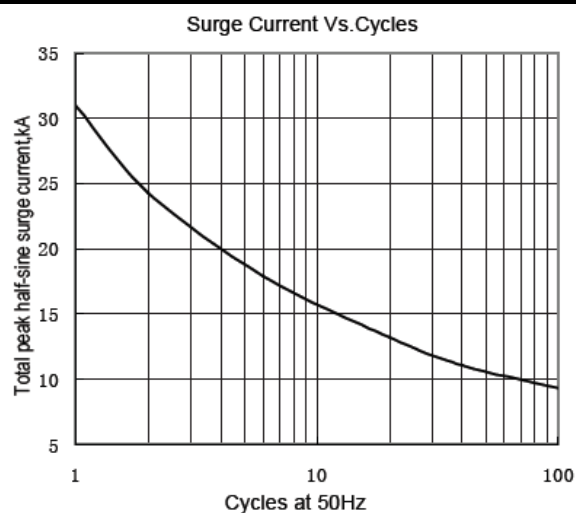


Fig.7

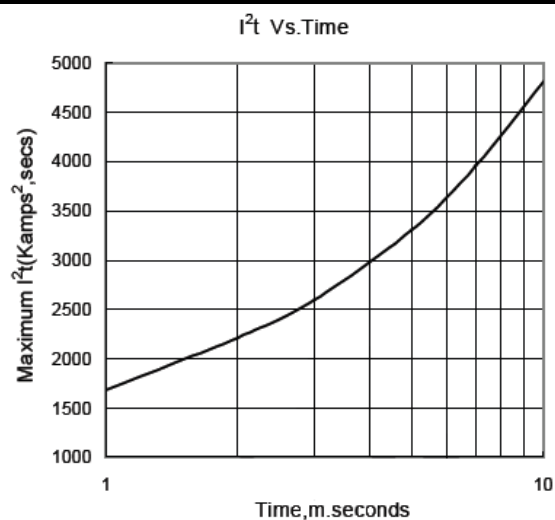
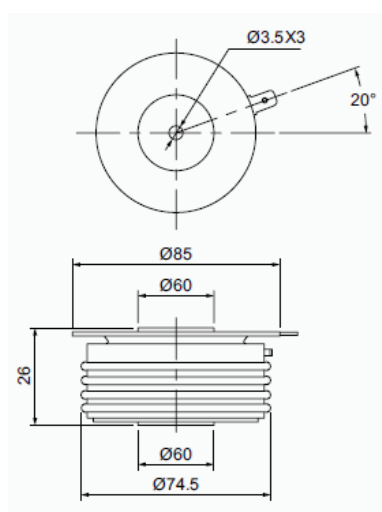
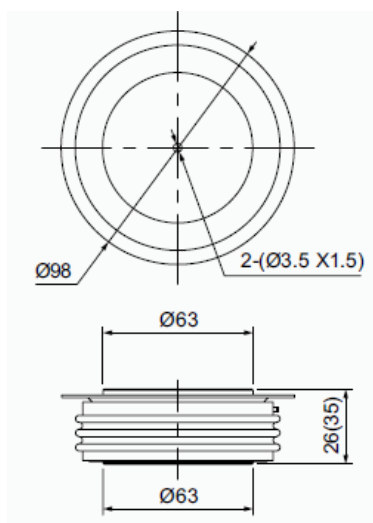


Fig.8

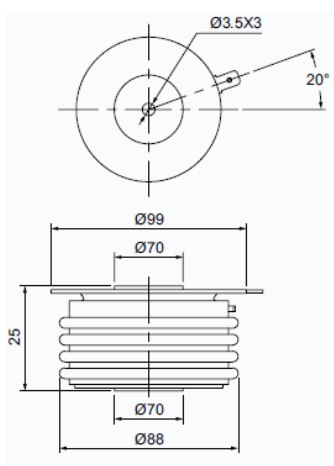
Outline:



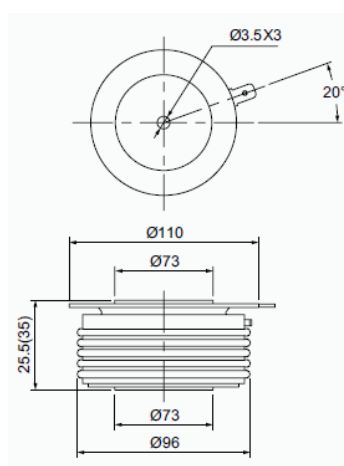
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