

**Feature**

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

**Typical Application**

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

$I_{F(AV)}$	2500A
$V_{RRM}$	100-5000V
$I_{FSM}$	40 KA
$I^2t$	8000 $10^3 a^2s$

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		2500	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	150		40	KA
$I^2t$	$I^2t$ for fusing coordination	$V_R=0.6V_{RRM}$			8000	$A^{2S*}1$
$V_{FO}$	Threshold voltage		150		0.86	V
$r_T$	On-state slop resistance				0.11	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		168	A
$t_{rr}$	Reverse recovery time				6.8	us
$Q_{rr}$	Recovery charge				571	uC
$R_{th(j-h)}$	Thermal resistance Junction to heat sink	At180° sine double side cooled Clamping force 5.0kn			0.011	°C/W
$F_M$	Mounting force			35	47	KN
$T_{stq}$	Stored temperature			-40	190	°C
$W_t$	Weight					g
Outline						

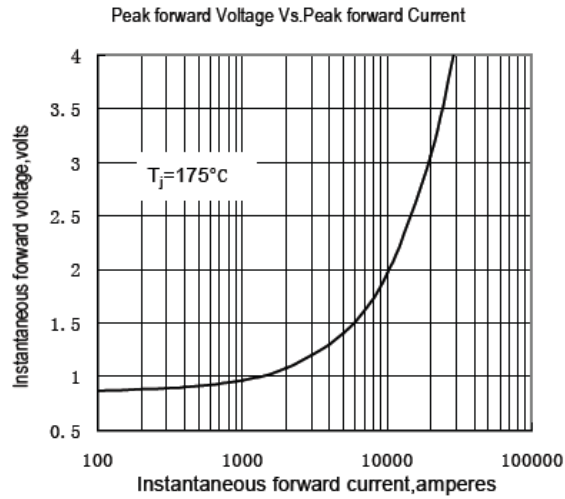


Fig.1

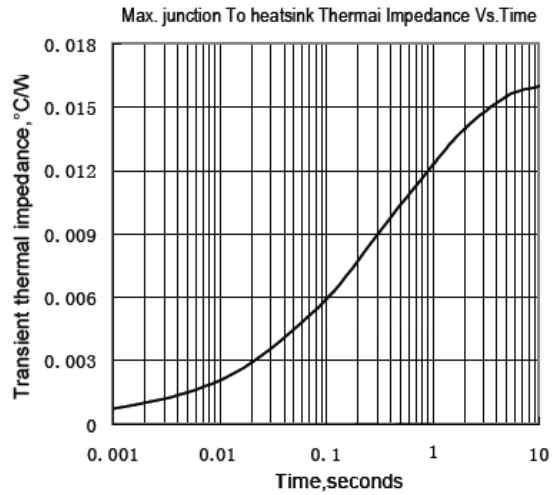


Fig.2

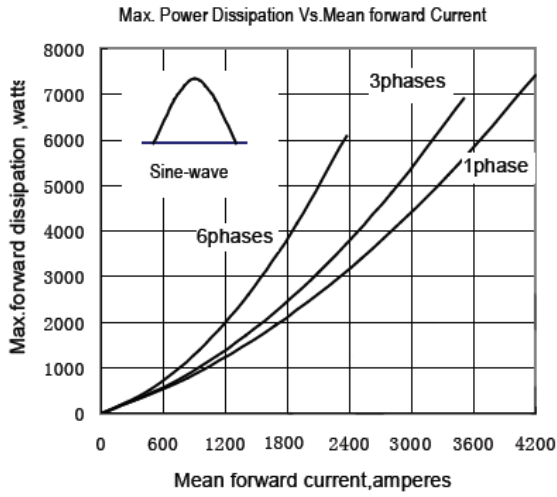


Fig.3

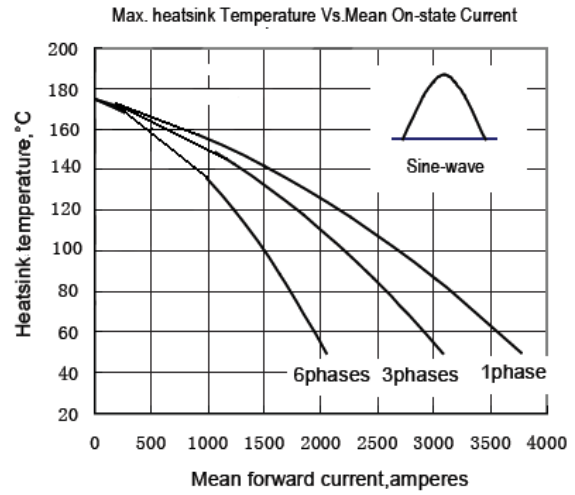


Fig.4

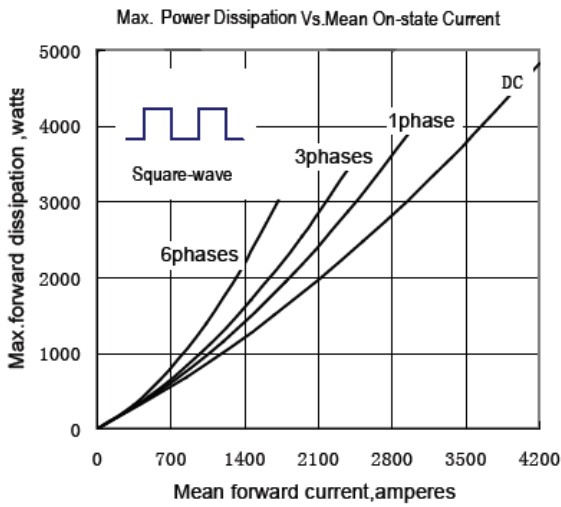


Fig.5

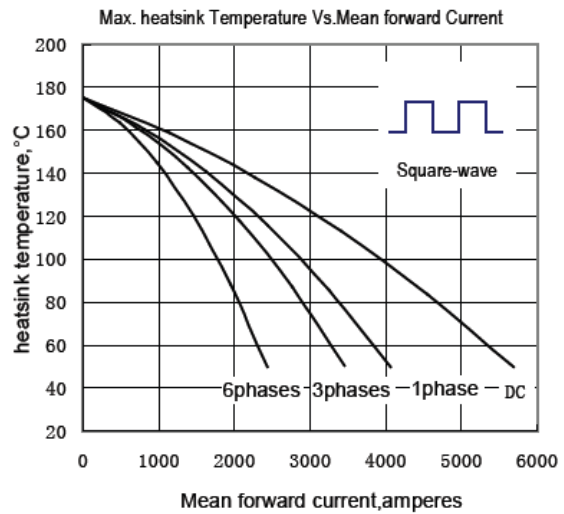


Fig.6

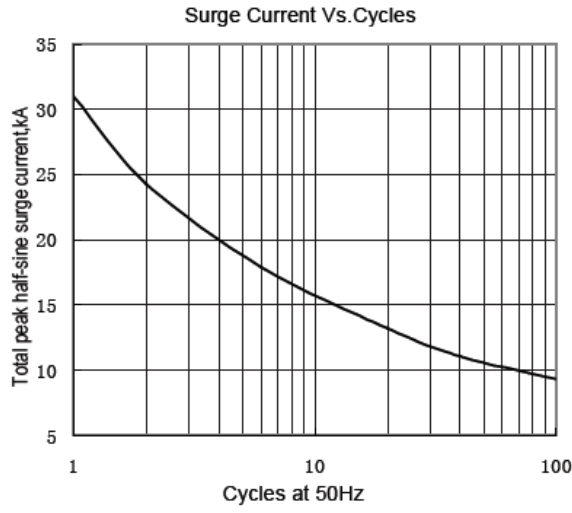


Fig.7

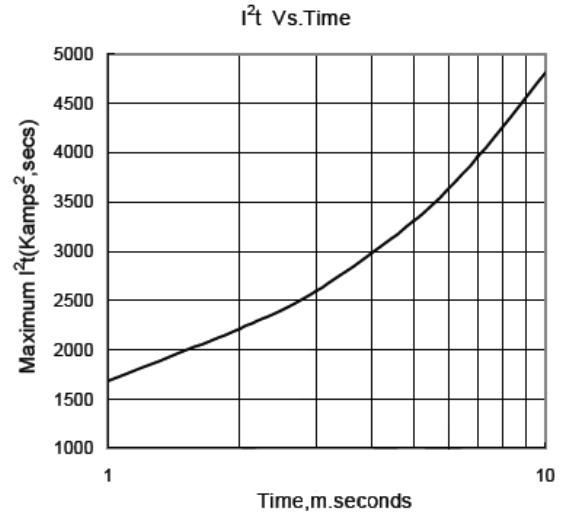
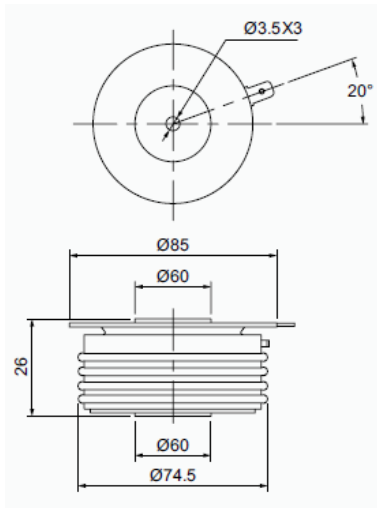
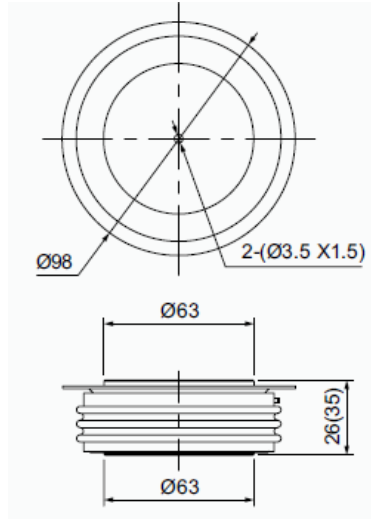


Fig.8

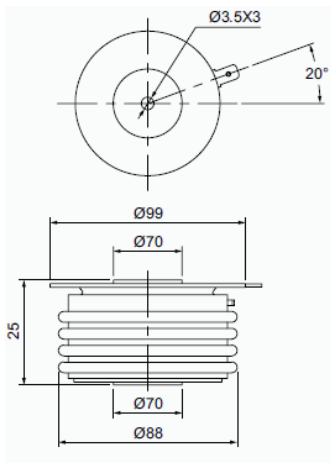
**Outline:**



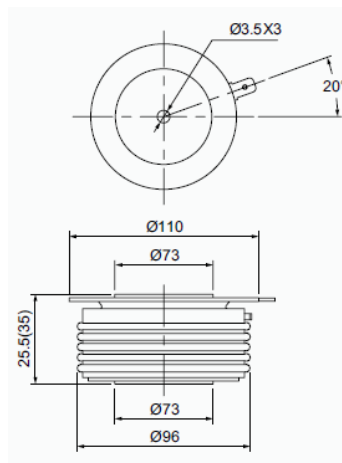
1



2



3



4