Feature

▪ The chips are electrically insulated from bottom plate, 2500V AC voltage.
▪ Complete pressure connection structure, with excellent temperature Characteristics and power cycling capacity.
▪ Forced air cooling for modules below 400A and air cooling or water, Cooling for modules above 500A.

Typical application

▪ DC power supplies of appliances and devices.
▪ AC and DC motor control, Soft starting for motors.
▪ Various rectifying power supply.
▪ Electric welders, Frequency transformers, Battery charging and discharging

$I_{F(AV)}$	25A
V_{RRM}	500~2500V
I_{FSM}	0.65 kA
I^2t	2.1 $A^2S^*10^3$







SYMBOL	CHARACTERISTIC	TEST CONDITIONS	T_j(°C)	VALUE			UNIT
				Min	Type	Max	
$I_{F(AV)}$	Mean forward current	180 half sine wave 50Hz Single side cooled,T_C=100°C	150			25	A
$I_{F(RMS)}$	RMS forward current		150			39	A
V_{RRM}	Repetitive peak reverse voltage	V_{RRM} tp=10ms V_{RSM}= V_{RRM}+100V	150	500		2500	V
I_{RRM}	Repetitive peak current	at V_{RRM}	150			8	mA
I_{FSM}	Surge forward current	10ms half sine wave V_R=0.6V_{RRM}	150			0.65	KA
I^2t	I^2T for fusing coordination					2.1	A^2s*10^3
V_{TO}	Threshold voltage		150			0.80	V
r_T	Forward slop resistance					6.8	mΩ
V_{FM}	Peak forward voltage	I_{FM}=80A	25			1.65	V
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180^0 sine· Single side cooled				1.300	°C/W
$R_{th(c-h)}$	Thermal resistance case to heatsink	At 180^0 sine· Single side cooled				0.2	°C/W
V_{iso}	Isolation voltage	50Hz,R.M.S,t=1min,I_{iso}:1mA(max)		2500			V
F_m	Terminal connection torque(M5)				4		N·m
	Mounting torque(M6)				6		N·m
T_{stg}	Stored temperature			-40		125	°C
W_t	Weight				190		g
Outline	Fig.1						

Peak forward Voltage Vs.Peak forward Current

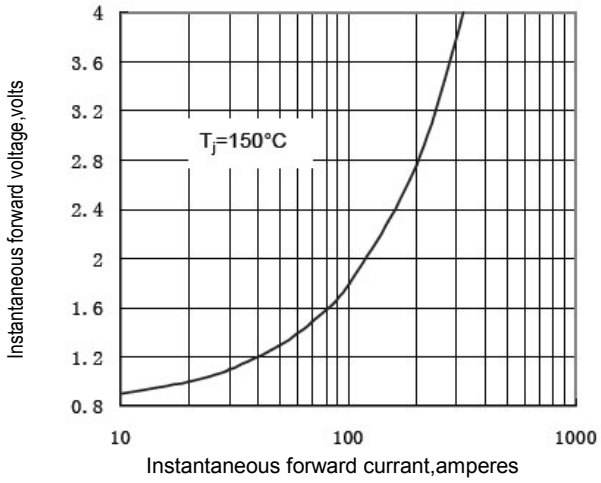


Fig.1

Max. junction To case Thermai Impedance **Vs.Time**

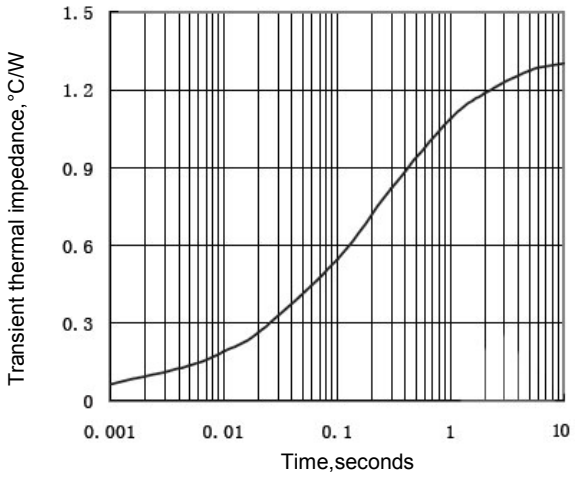


Fig.2

Max. Power Dissipation Vs.Mean forward Current

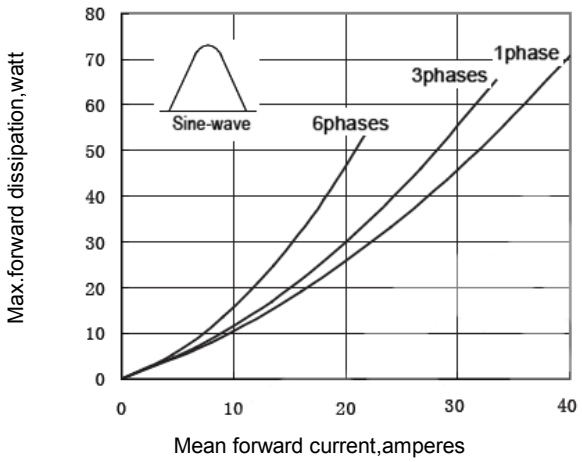


Fig.3

Max. case Temperature Vs.Mean forward Current

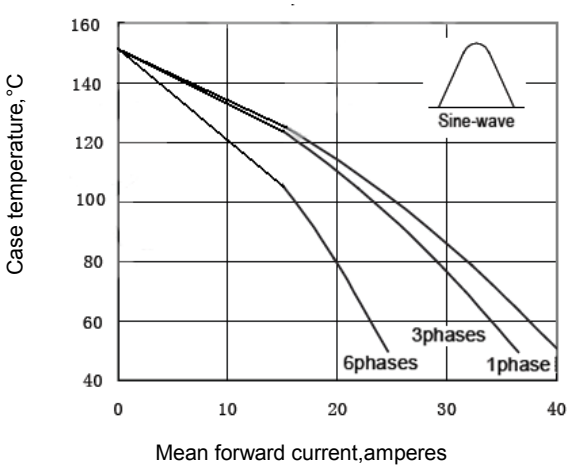


Fig.4

Max. Power Dissipation Vs.Mean forward Current

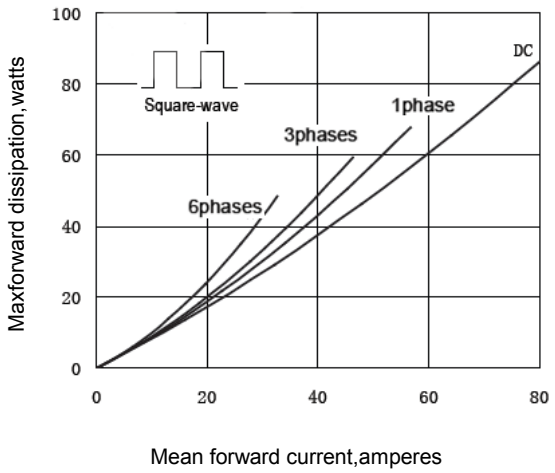


Fig.5

Max. case Temperature Vs.Mean forward Current

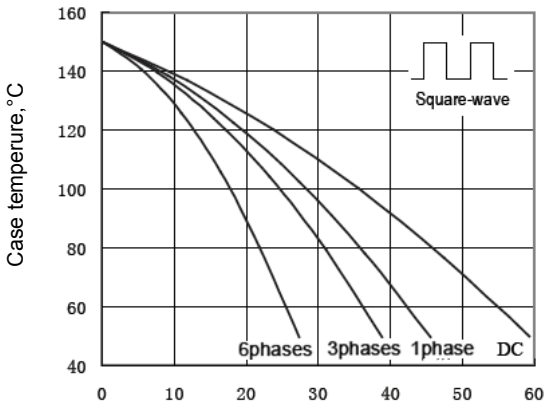


Fig.6

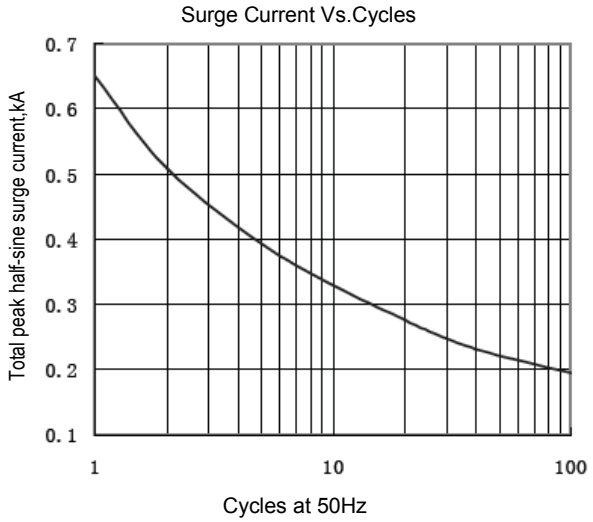


Fig.7

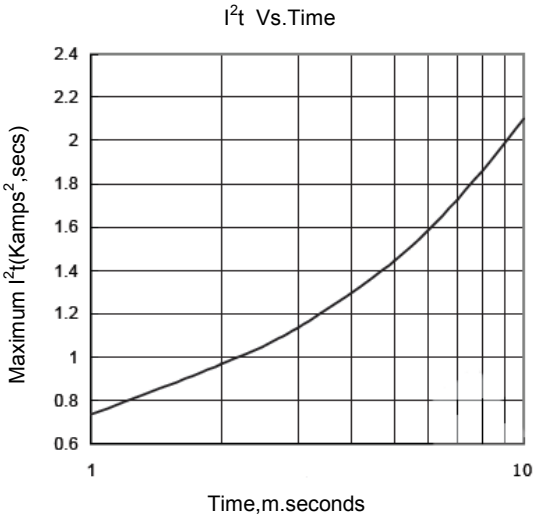


Fig.8

Outline:

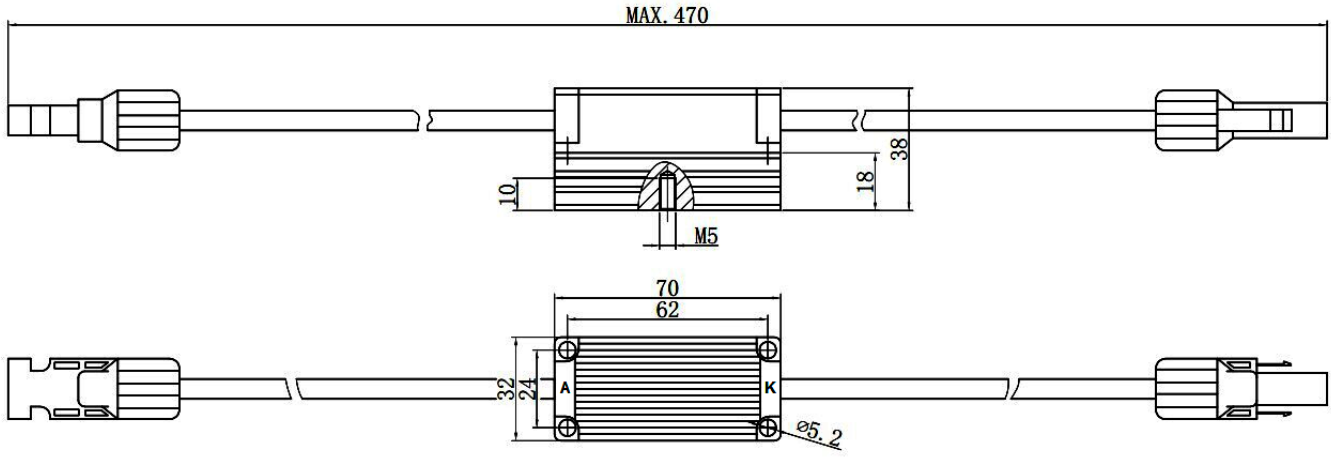


Fig 1

GMD 