

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

$I_{F(AV)}$	55A
V_{RRM}	500~2500V
I_{FSM}	1.3 kA
I^2t	$8.45 A^2S \cdot 10^3$



SYMBOL	CHARACTERISTIC	TEST CONDITIONS	$T_j(^{\circ}C)$	VALUE			UNIT
				Min	Type	Max	
$I_{F(AV)}$	Mean forward current	180 half sine wave 50Hz Single side cooled, $T_C=100^{\circ}C$	150			55	A
$I_F(RMS)$	RMS forward current		150			86	A
V_{RRM}	Repetitive peak reverse voltage	$V_{RRM} t_p=10ms$ $V_{RSM}=V_{RRM}+100V$	150	500		2500	V
I_{RRM}	Repetitive peak current	at V_{RRM}	150			8	mA
I_{FSM}	Surge forward current	10ms half sine wave	150			1.3	KA
I^2t	I^2T for fusing coordination	$V_R=0.6V_{RRM}$				8.45	$A^2s \cdot 10^3$
V_{TO}	Threshold voltage		150			0.80	V
r_T	Forward slop resistance					3.47	m Ω
V_{FM}	Peak forward voltage	$I_{FM}=80A$	25			1.45	V
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180 $^{\circ}$ sine Single side cooled				0.700	$^{\circ}C/W$
$R_{th(c-h)}$	Thermal resistance case to heatsink	At 180 $^{\circ}$ sine Single side cooled				0.2	$^{\circ}C/W$
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	$^{\circ}C$
W_t	Weight				190		g
Outline	Fig.1						

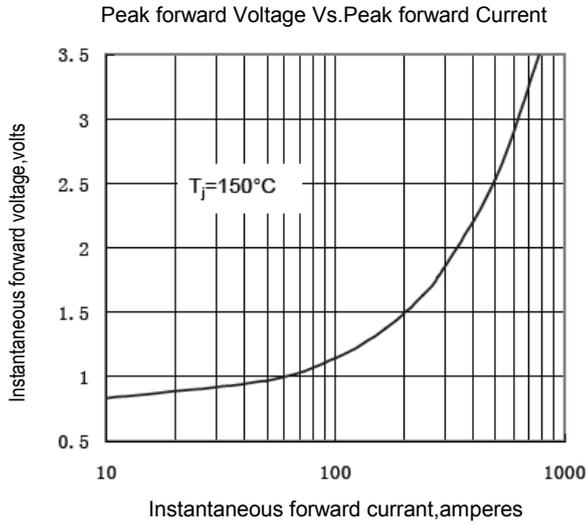


Fig.1

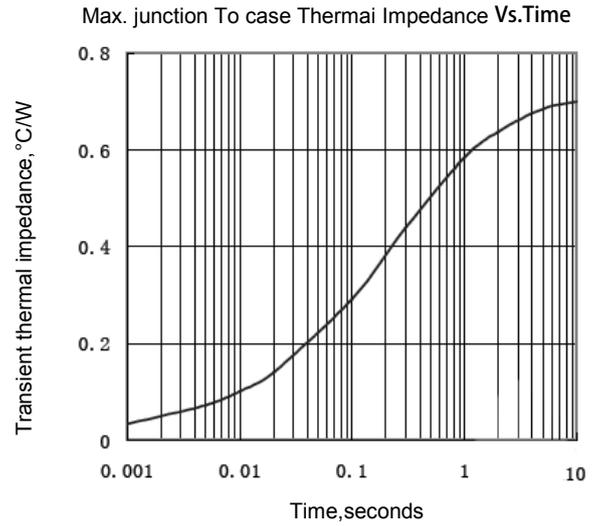


Fig.2

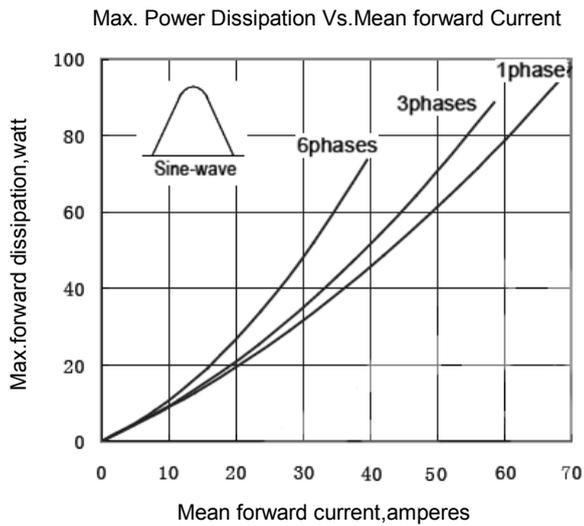


Fig.3

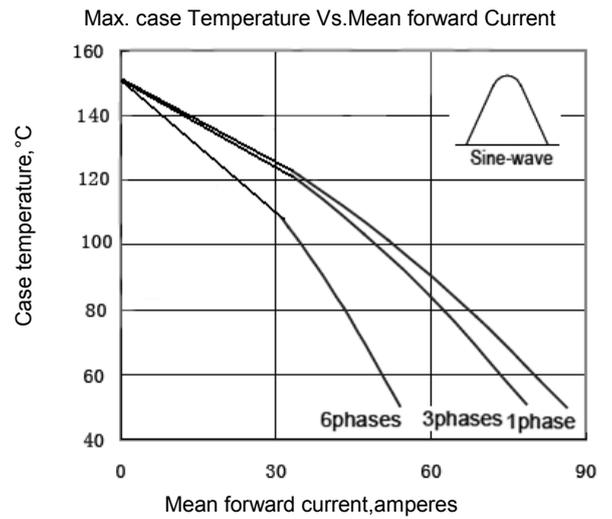


Fig.4

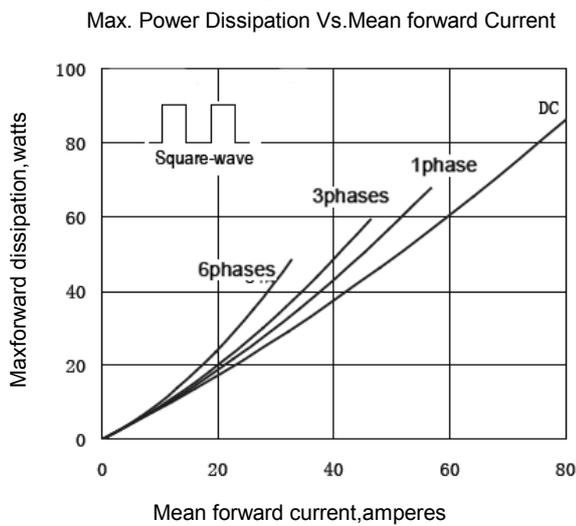


Fig.5

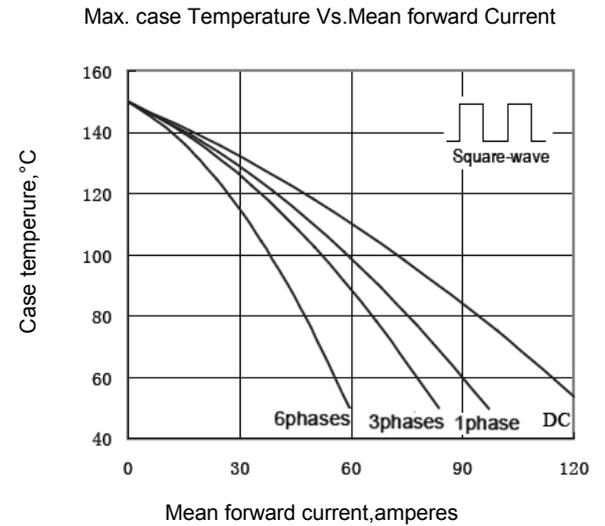


Fig.6

Surge Current Vs.Cycles

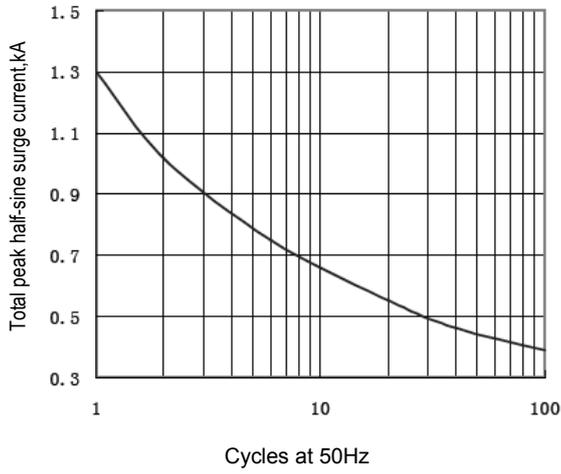


Fig.7

I^2t Vs.Time

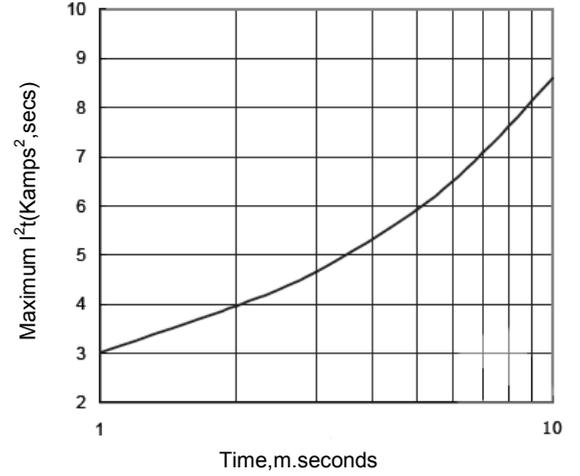


Fig.8

Outline:

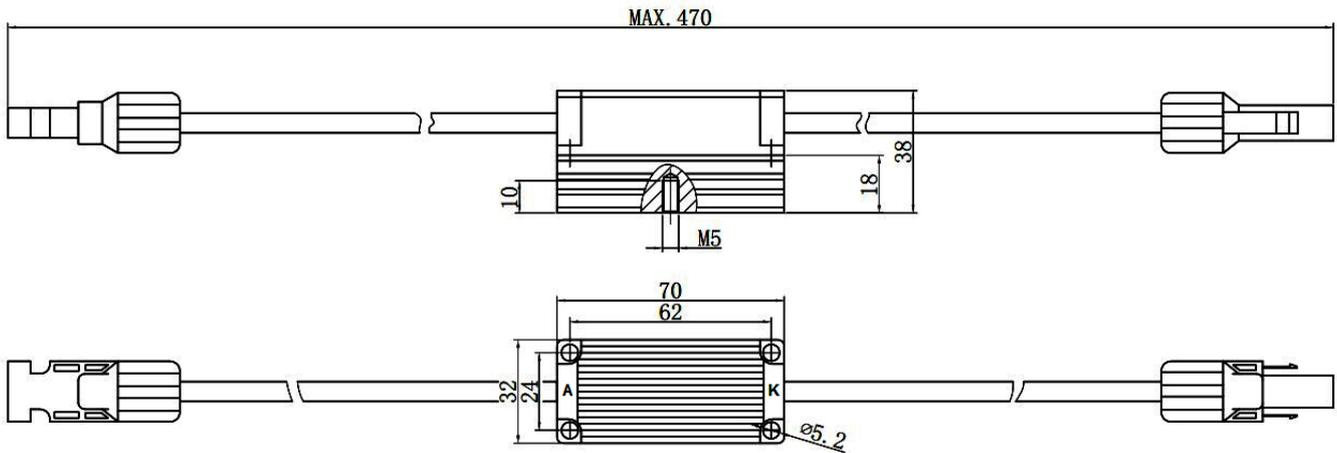


Fig 1

