

Feature

- Chips are electrically insulated from plate
- Package in compliance with international standard. Pressure type, excellent temperature characteristics and power cycling capability
- 350A below modules are forced air cooling, 400A above modules can be selected by air cooling or water cooling

Typical application

- AC, DC motor control, Different kind of rectifying power supply
- Industrial heating and control, Light adjustment, Non-contact switch
- Motor softstarter, Static reactive power compensation
- Welding equipment, Frequency transformer, UPS, Battery charging and discharging

$I_{T(AV)}$	600A
V_{DRM}/V_{RRM}	500-2500V
I_{TSM}	16 KA
I^2t	1280 $10^3 A^2s$

SYMBOL	CHARCTERISTIC	TEST CONDITIONS	T _J (℃)	VALUE		UNIT
				Min	Max	
I _{T(AV)}	Mean on-state current	180° half sine wawe, 50HZ Double side cooled, T _C =98℃	125		600	A
I _{T(RMS)}	RMS current		125		942	A
V _{DRM} V _{RRM}	Repetitive peak off-state voltage Repetitive peak reverse voltage	V _{DRM} &V _{RRM} tp=10ms V _{DSM} &V _{RSM} =V _{DRM} &V _{RRM} +200V	125	500	2500	V
I _{DRM} I _{RRM}	Repetitive peak current	V _{DM} =V _{DRM} V _{RM} =V _{RRM}	125		200	mA
I _{TSM}	Surge on-state current	10ms half sine wave V _R =0.6V _{RRM}	125		16.0	KA
I ² t	I ² t for fusing coordination				1280	A ^{2S} *10
V _{TO}	Threshold voltage		125		0.80	V
r _T	On-state slop resistance				0.34	mΩ
V _{TM}	Peak on-state voltage	I _{TM} =1500A	25		1.35	V
dv/dt	Critical rate of rise of-state voltage	V _{DM} =0.67V _{DRM}	125		800	V/us
di/dt	Critical rate of rise of on-state current	V _{DM} =67% V _{DRM} TO 1000A, Gate pulse tr≤0.5us I _{GM} =1.5A	125		100	A/us
I _{GT}	Gate trigger current	V _A =12V,I _A =1A	25	30	200	mA
V _{GT}	Gate trigger voltage			1.0	3	V
I _H	Holding current			20	200	mA
V _{GD}	Npn-trigger gate voltage	V _{DM} =0.67V _{DRM}	125		0.2	V
R _{th(j-c)}	Thermal impedance node to the shell	180 ° sine wave, single heat sink			0.065	℃/W
R _{th(c-h)}	Thermal impedance (shell to powder)	180 ° sine wave, single heat sink			0.024	℃/W
V _{iso}	Insulantion voltage				2500	V
F _M	Mounting force (M10)				12	N-m
	Mounting force (M6)				6	N-m
T _{stq}	Stored temperature			-40	125	℃
W _t	Weight		1.40			kg
Outline						

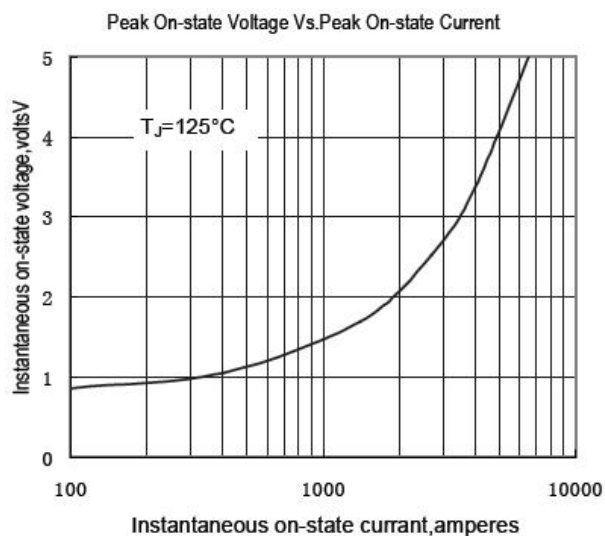


Fig.1

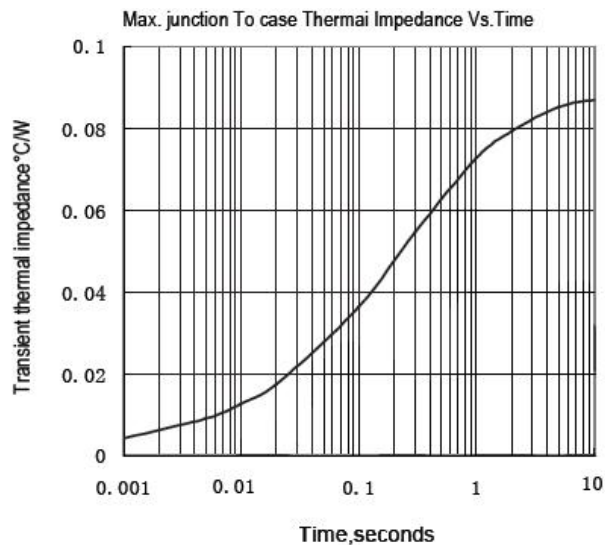


Fig.2

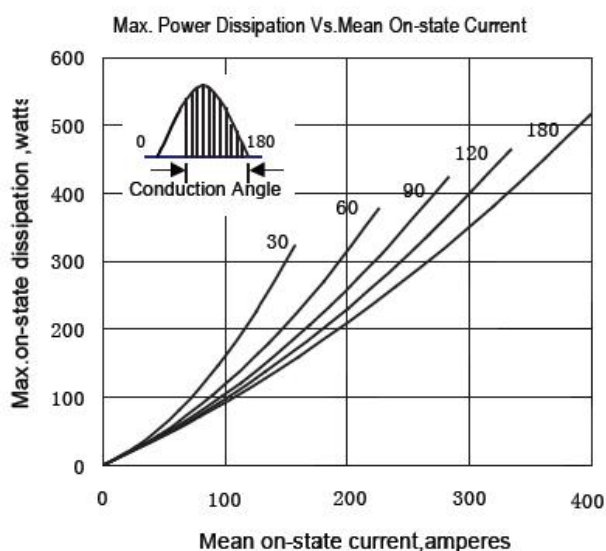


Fig.3

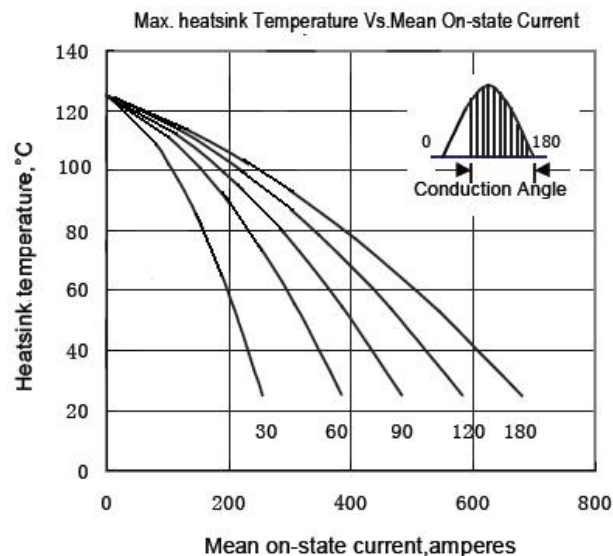


Fig.4

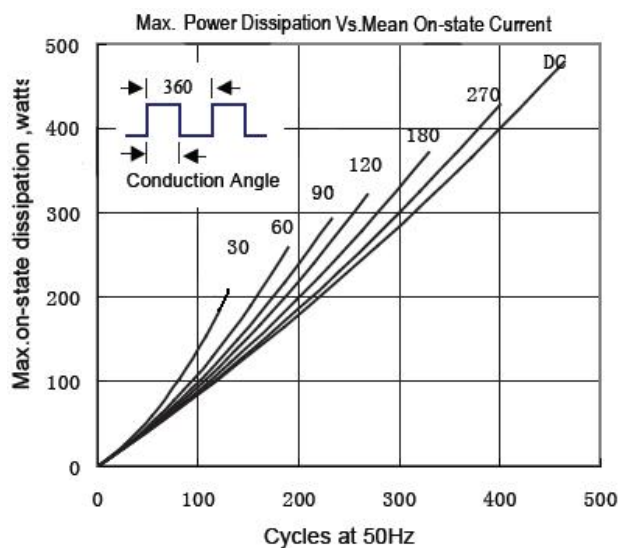


Fig.7

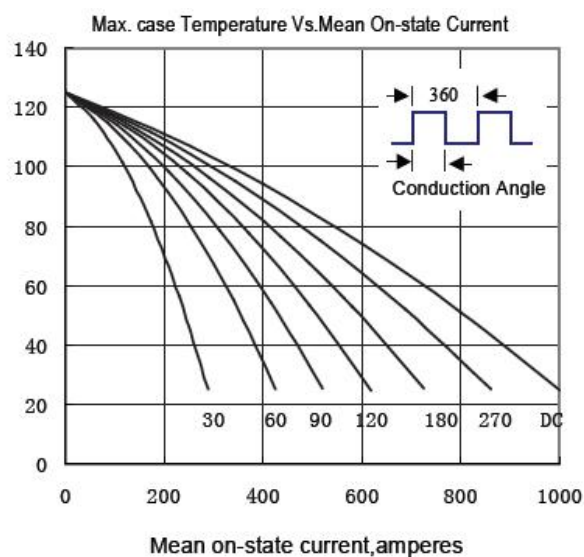


Fig.6

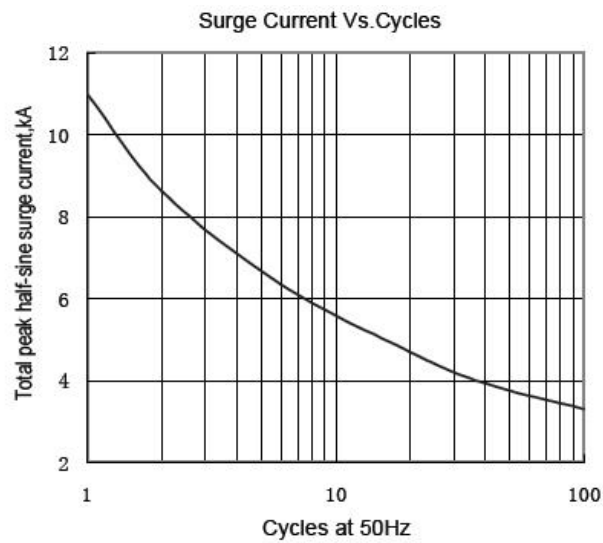


Fig.7

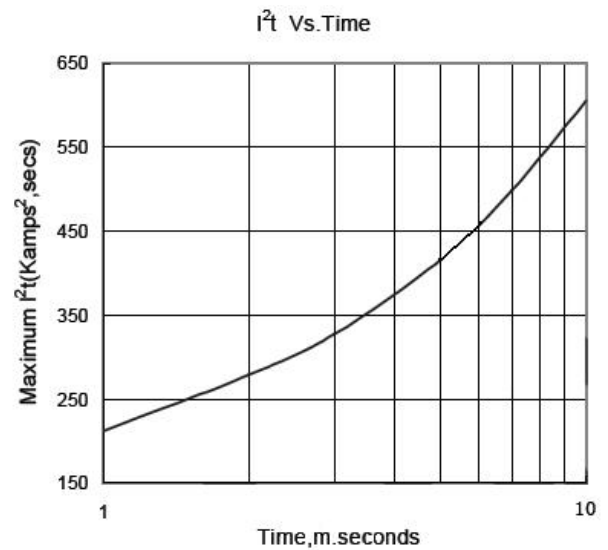


Fig.8

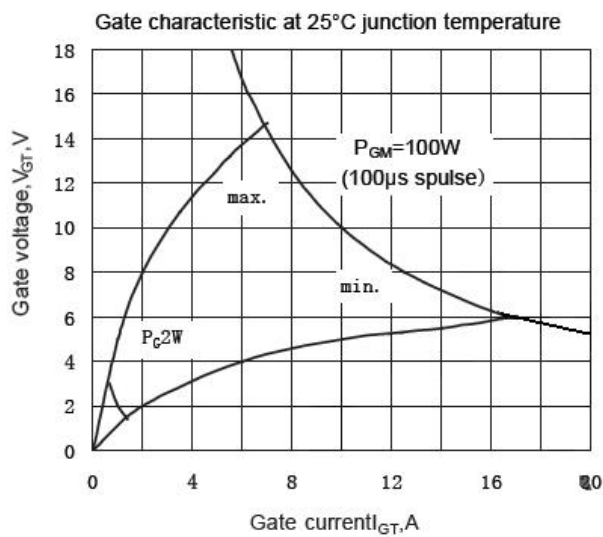


Fig.9

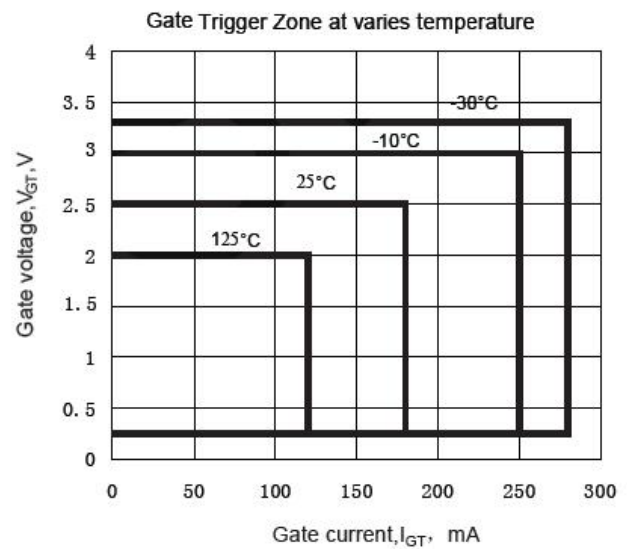
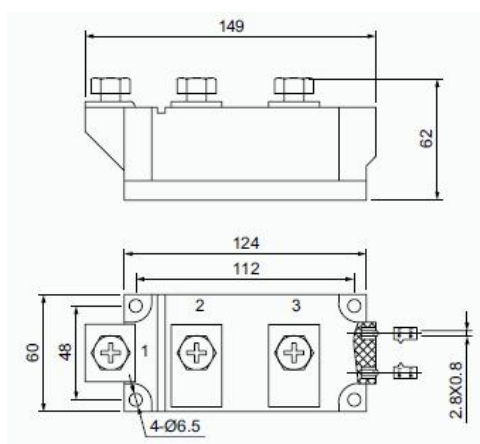


Fig.10

Outline In MM :



Circuit Drawing:

