

**Features :**

- Isolated mounting base 3000V~
- Pressure contact technology with  
Increased power cycling capability
- Space and weight saving

**Typical Applications**

- Various rectifiers
- DC supply for PWM inverter

V <sub>RSM</sub>	V <sub>RRM</sub>	品名
900V	800V	Mx600D80
1100V	1000V	Mx600D100
1300V	1200V	Mx600D120
1500V	1400V	Mx600D140
1700V	1600V	Mx600D160
1900V	1800V	Mx600D180

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	T <sub>j</sub> (°C)	VALUE			UNIT
				Min.	Typ.	Max.	
I <sub>F(AV)</sub>	Mean forward current	180° half sine wave 50Hz Single side cooled, T <sub>c</sub> =100°C	150			600	A
I <sub>F(RMS)</sub>	RMS forward current		150			942	A
I <sub>RRM</sub>	Repetitive peak current	at V <sub>RRM</sub>	150			30	mA
I <sub>FSM</sub>	Surge forward current	10ms half sine wave V <sub>R</sub> =0.6V <sub>RRM</sub>	150			19.0	kA
I <sup>2</sup> t	I <sup>2</sup> t for fusing coordination					1805	A <sup>2</sup> s*10 <sup>3</sup>
V <sub>FO</sub>	Threshold voltage		150			0.75	V
r <sub>F</sub>	Forward slope resistance					0.35	mΩ
V <sub>FM</sub>	Peak forward voltage	I <sub>FM</sub> =1800A	25			1.50	V
R <sub>th(j-c)</sub>	Thermal resistance Junction to case	D.C. Single side cooled per chip				0.065	°C/W
R <sub>th(c-h)</sub>	Thermal resistance case to heatsink	D.C. Single side cooled per chip				0.024	°C/W
V <sub>iso</sub>	Isolation voltage	50Hz, R.M.S, t=1min, I <sub>iso</sub> :1mA(max)		3000			V
F <sub>m</sub>	Terminal connection torque(M10)				12.0		N-m
	Mounting torque(M6)				6.0		N-m
T <sub>vj</sub>	Junction temperature			-40		150	°C
T <sub>stg</sub>	Stored temperature			-40		125	°C
W <sub>t</sub>	Weight				1500		g
Outline	M06						

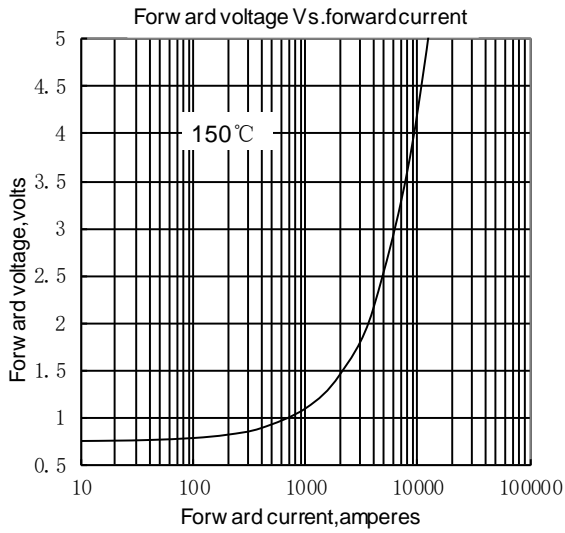


Fig.1

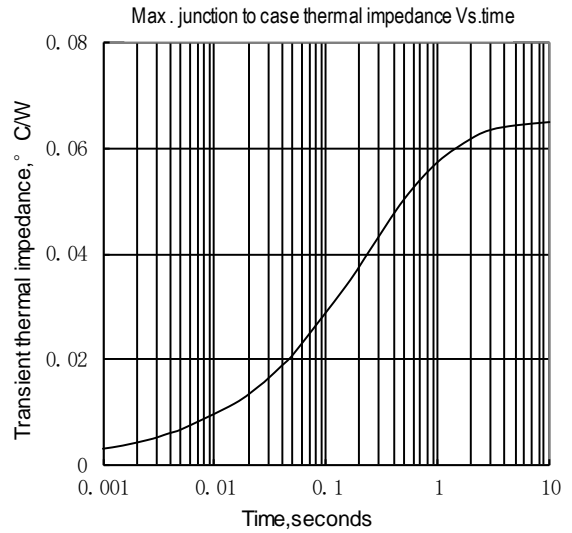


Fig.2

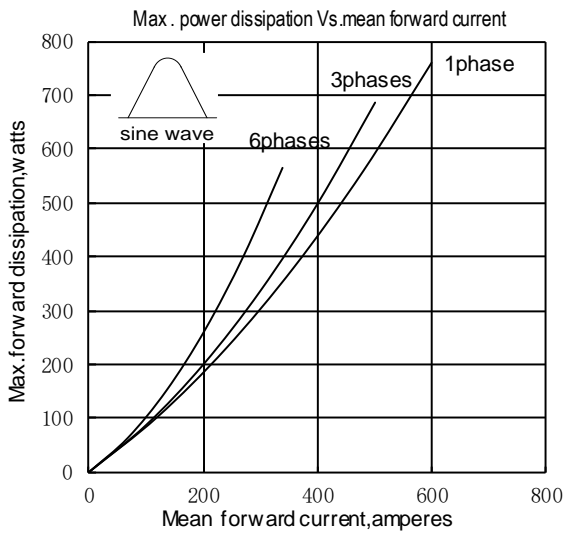


Fig.3

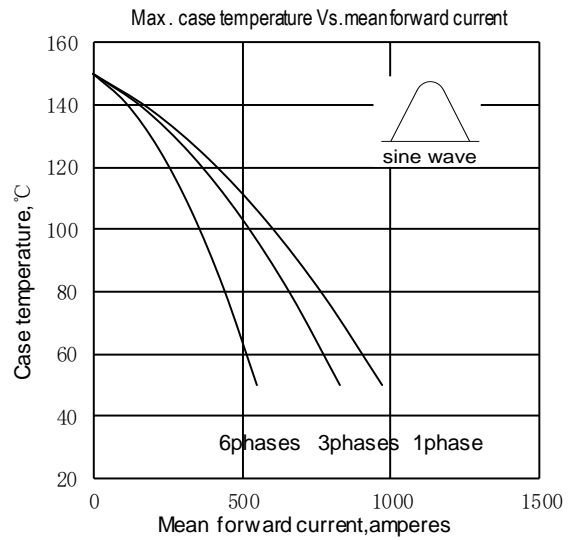


Fig.4

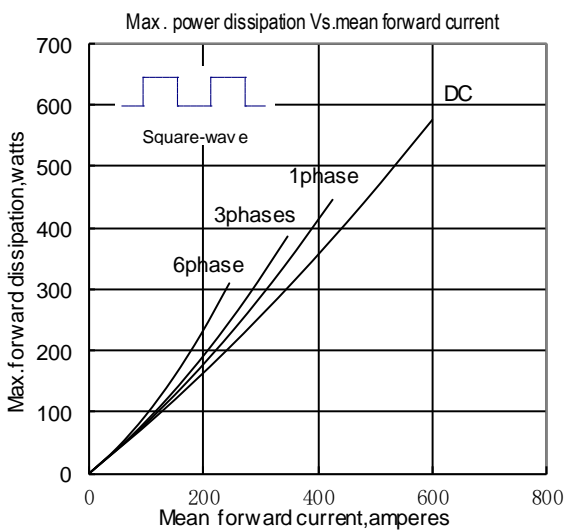


Fig.5

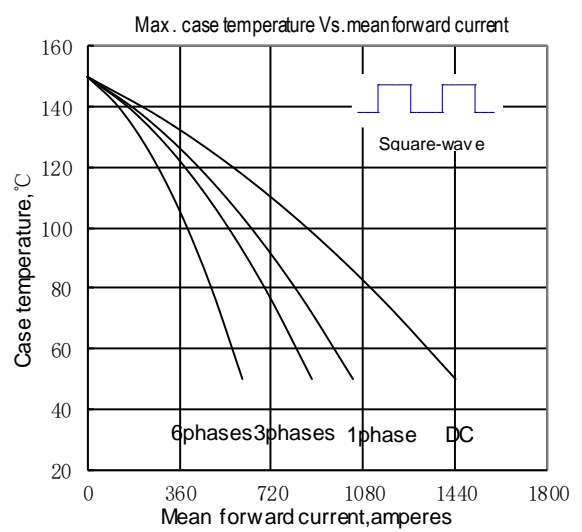


Fig.6

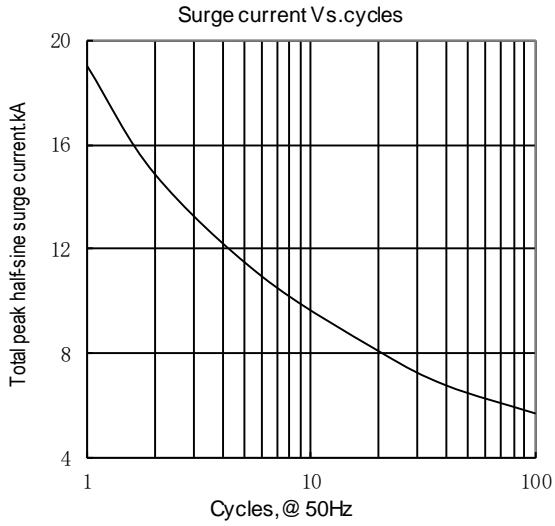
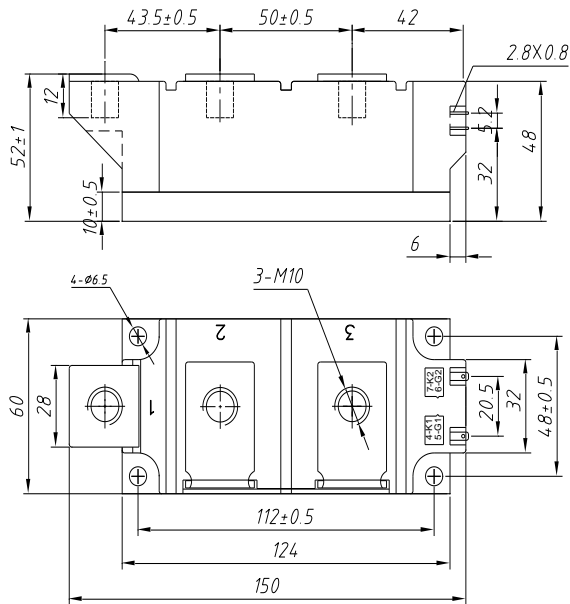
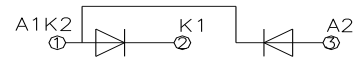


Fig.7

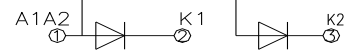


Unmarked dimensional tolerance : ±0.5mm

MD600D\*\*



MR600D\*\*



MC600D\*\*

