

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 _{RSM}	V _{RRM}	品名
900V	800V	Mx700D80
1100V	1000V	Mx700D100
1300V	1200V	Mx700D120
1500V	1400V	Mx700D140
1700V	1600V	Mx700D160
1900V	1800V	Mx700D180

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 =90°C	150			700	A
I _{F(RMS)}	RMS forward current					1099	A
I _{RRM}	Repetitive peak current	at V _{RRM}	150			45	mA
I _{FSM}	Surge forward current	V _R =60%V _{RRM} , t=10ms half sine,	150			22.5	kA
I ² t	I ² t for fusing coordination					2531	10 ³ A ² s
V _{FO}	Threshold voltage		150			0.68	V
r _F	Forward slope resistance					0.29	mΩ
V _{FM}	Peak forward voltage	I _{FM} =2000A	25			1.50	V
R _{th(j-c)}	Thermal resistance Junction to case	D.C. Single side cooled per chip				0.072	°C/W
R _{th(c-h)}	Thermal resistance case to heatsink	D.C. Single side cooled per chip				0.024	°C/W
V _{iso}	Isolation voltage	50Hz,R.M.S,t=1min,I _{iso} :1mA(MAX)		3000			V
F _m	Terminal connection torque(M10)			10		12	N·m
	Mounting torque(M6)			4.5		6.0	N·m
T _{vj}	Junction temperature			-40		150	°C
T _{stg}	Stored temperature			-40		125	°C
W _t	Weight				1540		g
Outline	M06						

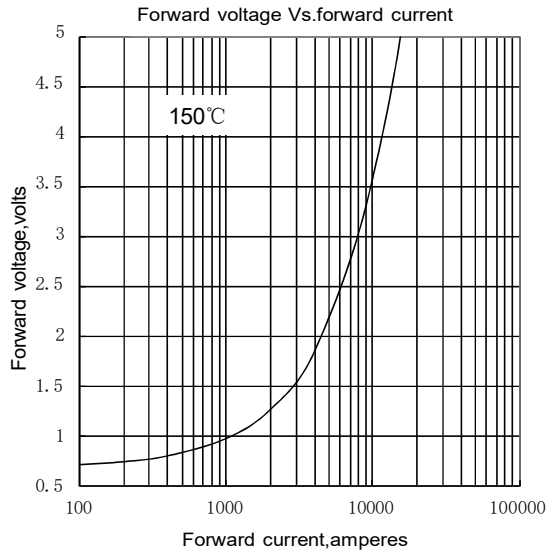


Fig.1

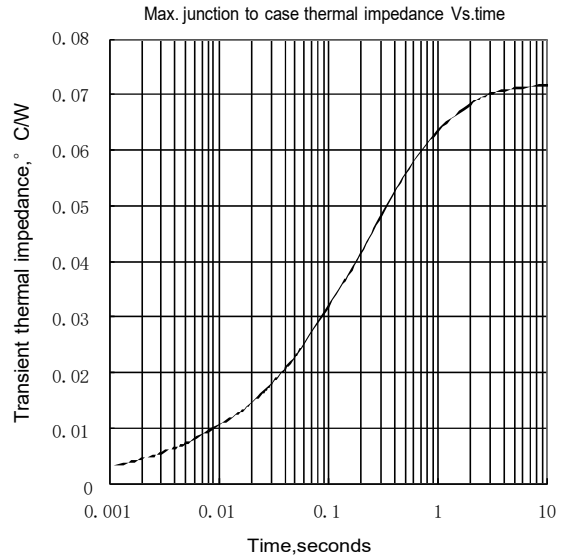


Fig.2

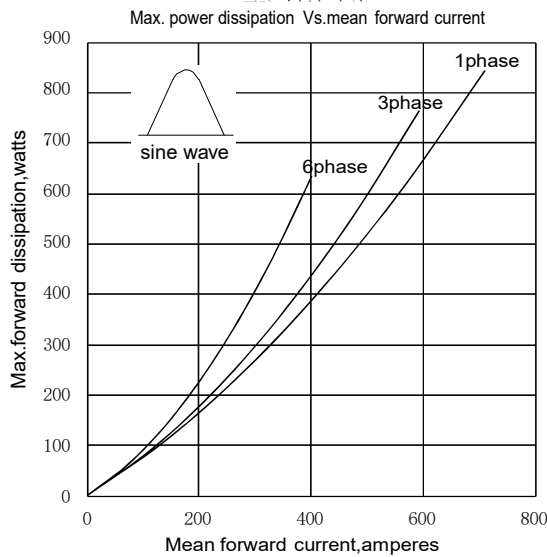


Fig.3

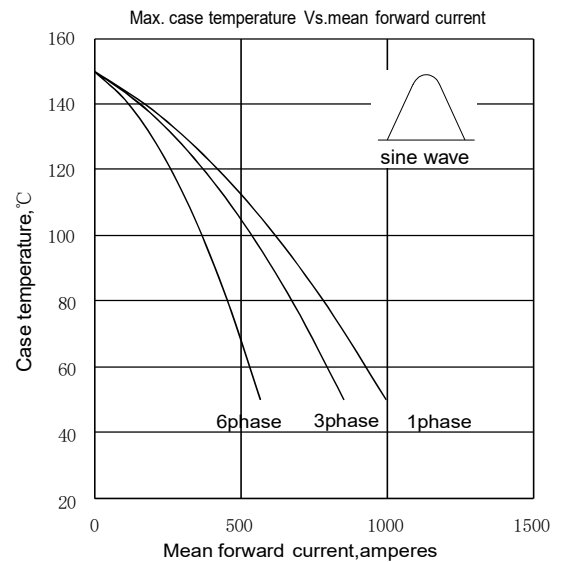


Fig.4

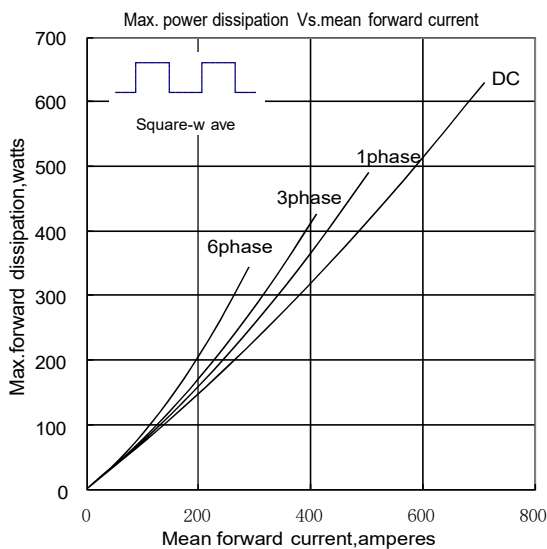


Fig.5

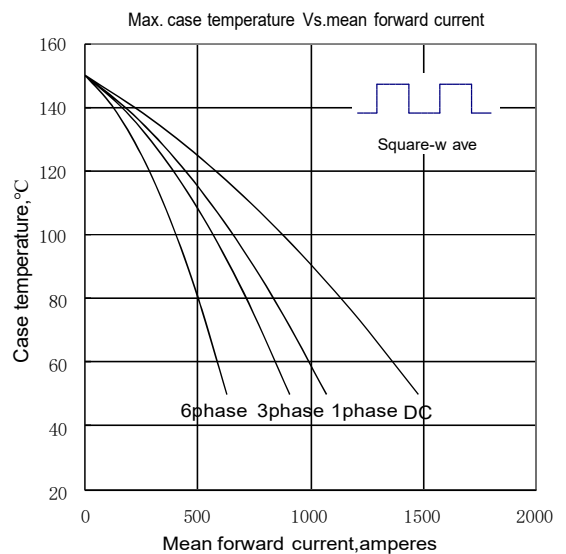


Fig.6

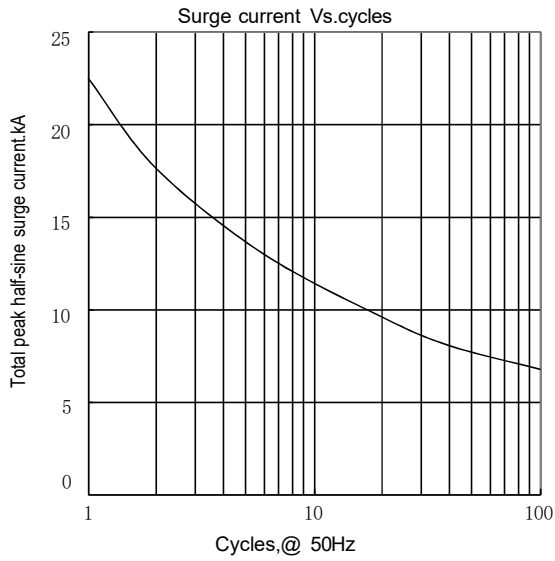
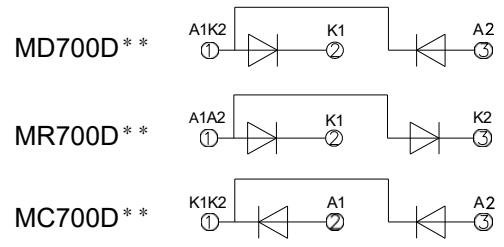
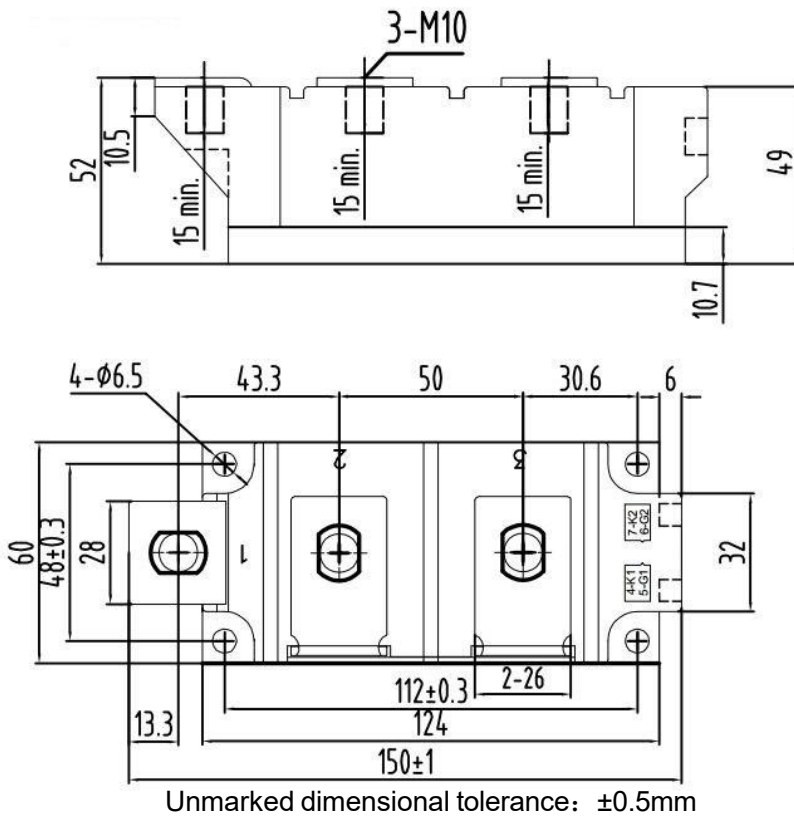


Fig.7

Outline:



NIPS reserves the right to change specifications without notice.