

Nips Diode Modules (Water Cooling) MD600D**W MC600D**W MR600D**W

Features :

- Isolated mounting base 2500V~
- Pressure contact technology with Increased power cycling capability
- Space and weight saving

Typical Applications

- AC/DC Motor drives
- Various rectifiers
- DC supply for PWM inverter

V _{RSM}	V _{RRM}	品名
900V	800V	Mx600D80W
1100V	1000V	Mx600D100W
1300V	1200V	Mx600D120W
1500V	1400V	Mx600D140W
1700V	1600V	Mx600D160W
1900V	1800V	Mx600D180W

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	T _J (°C)	VALUE			UNIT
				Min.	Typ.	Max.	
I _{F(AV)}	Mean forward current	180° half sine wave 50Hz Single side water cooled, T _C =60°C	150			600	A
I _{F(RMS)}	RMS forward current		150			942	A
I _{RRM}	Repetitive peak current	at V _{RRM}	150			40	mA
I _{FSM}	Surge forward current	10ms half sine wave V _R =0.6V _{RRM}	150			16.1	kA
I ² t	I ² t for fusing coordination					1296	A ² s*10 ³
V _{FO}	Threshold voltage		150			0.75	V
r _F	Forward slope resistance					0.42	mΩ
V _{FM}	Peak forward voltage	I _{FM} =1800A	25			1.70	V
R _{th(j-c)}	Thermal resistance Junction to case	D.C. Single side cooled per chip				0.11	°C/W
R _{th(c-h)}	Thermal resistance case to heat sink	D.C. Single side cooled per chip				0.04	°C/W
V _{iso}	Isolation voltage	50Hz, R.M.S, t=1min, I _{iso} :1mA(max)		2500			V
F _m	Terminal connection torque(M10)				12.0		N·m
	Mounting torque(M6)				6.0		N·m
T _{stg}	Stored temperature			-40		125	°C
W _t	Weight				1560		g
Outline	M14						

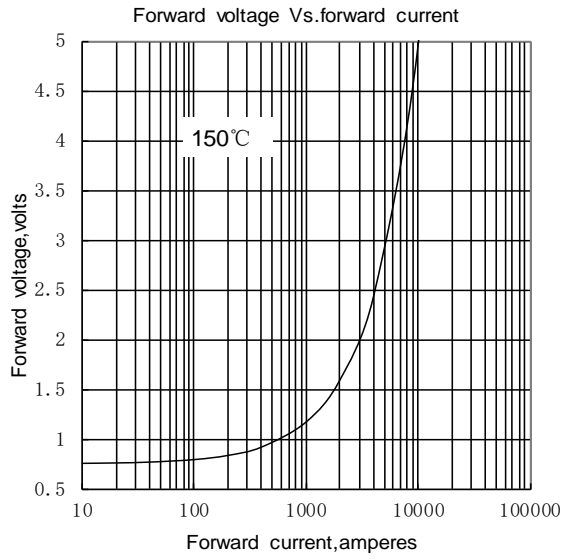


Fig.1

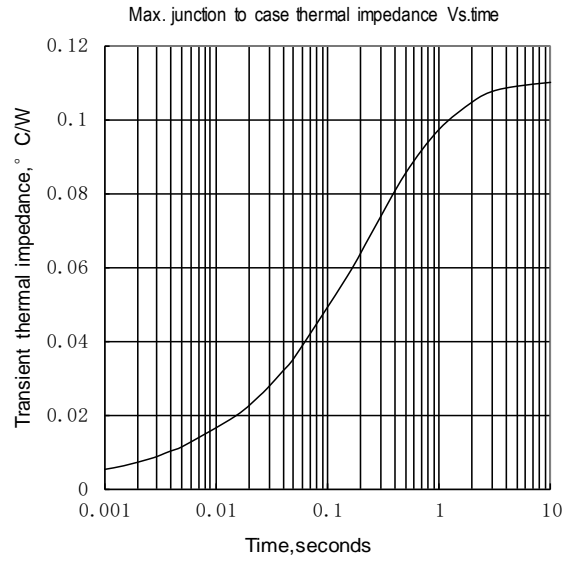


Fig.2

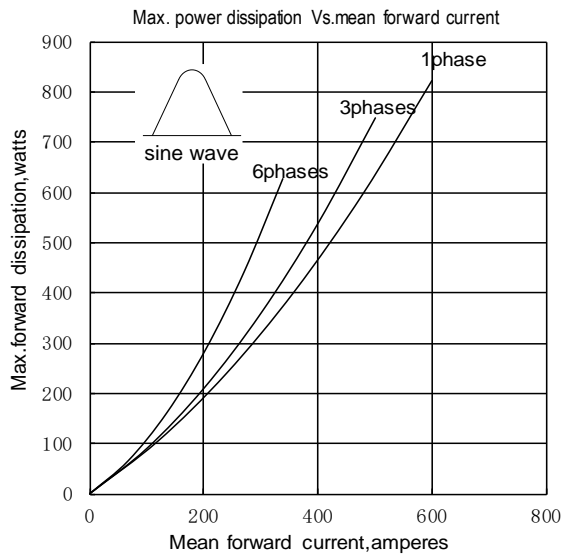


Fig.3

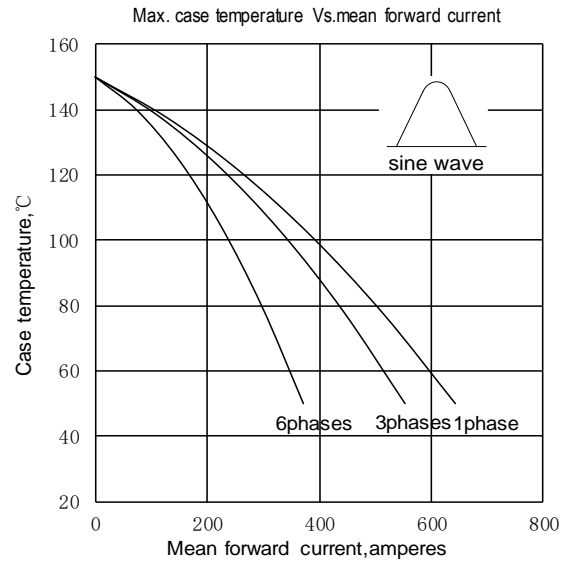


Fig.4

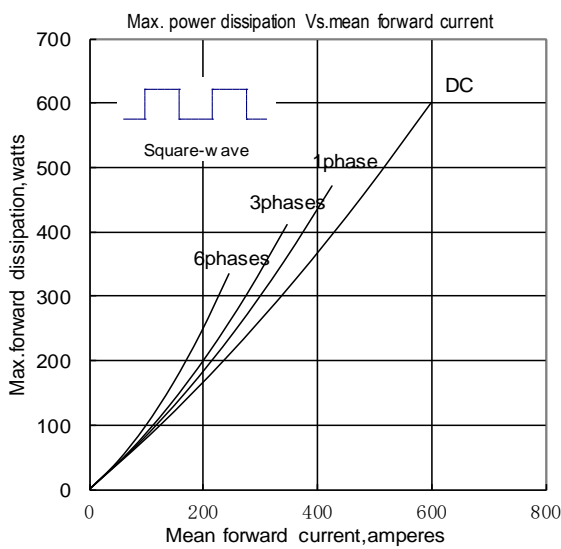


Fig.5

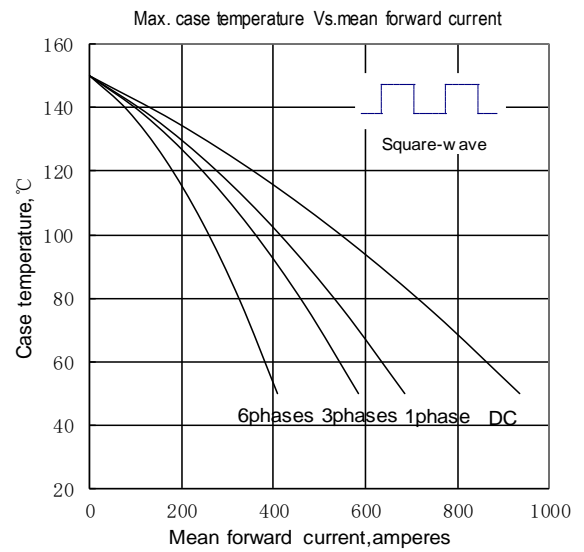


Fig.6

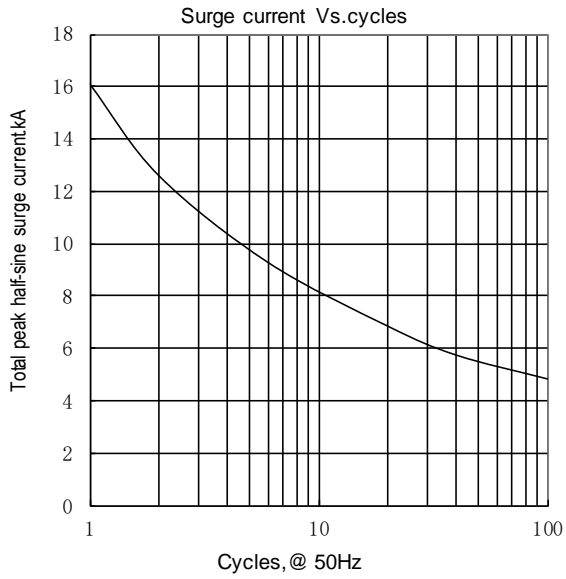
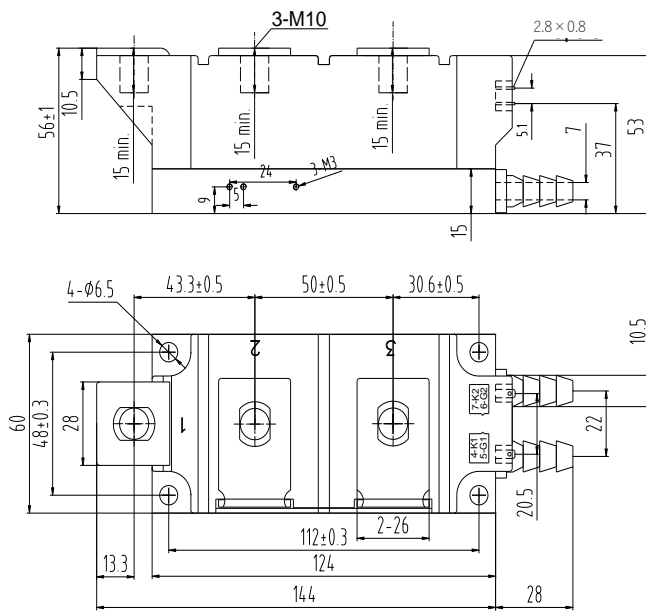


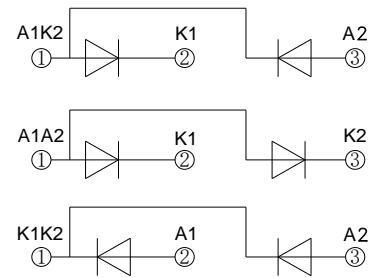
Fig.7



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MR600D**W

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Unmarked dimensional tolerance : ±0.5mm