

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 _{RRM}	Type & Outline
600V	MDx500-06-416F3
800V	MDx500-08-416F3
1000V	MDx500-10-416F3
1200V	MDx500-12-416F3
1400V	MDx500-14-416F3
1600V	MDx500-16-416F3
1800V	MDx500-18-416F3
1800V	MD500-18-416F3G

MDx stands for any type of **MDC, MDA, MDK**

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 =100°C	150			500	A
I _{F(RMS)}	RMS forward current					785	A
I _{RRM}	Repetitive peak current	at V _{RRM}	150			40	mA
I _{FSM}	Surge forward current	V _R =60%V _{RRM} ,t=10ms half sine.	150			16.0	kA
I ² t	I ² t for fusing coordination					1280	10 ³ A ² s
V _{FO}	Threshold voltage		150			0.75	V
r _F	Forward slope resistance					0.30	mΩ
V _{FM}	Peak forward voltage	I _{FM} =1500A	25			1.32	V
R _{th(j-c)}	Thermal resistance Junction to case	Single side cooled per chip				0.090	°C/W
R _{th(c-h)}	Thermal resistance case to heatsink	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	416F3						

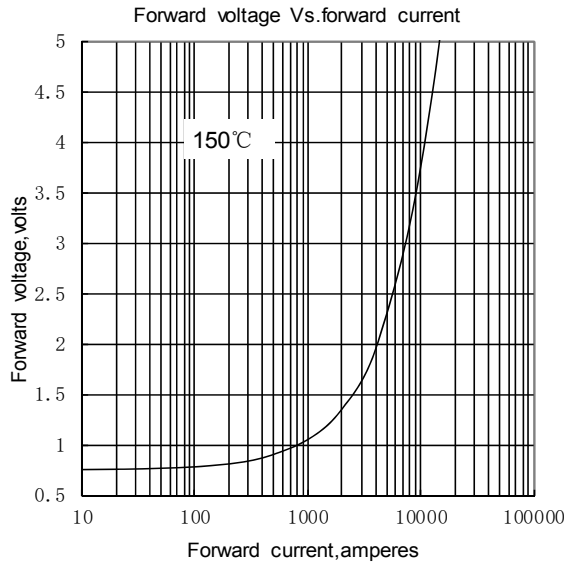


Fig. 1

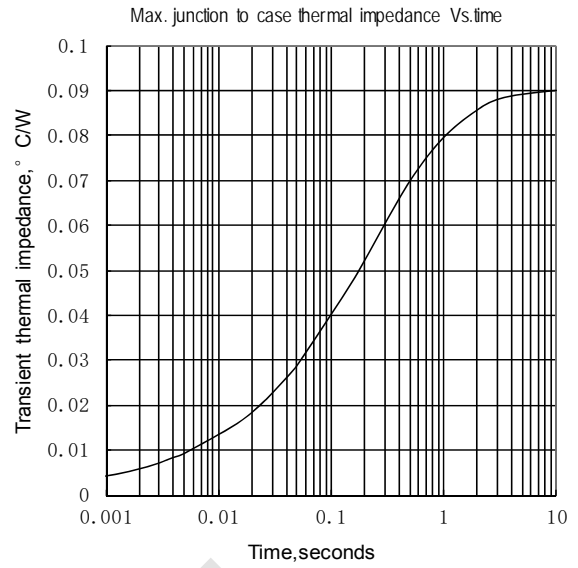


Fig. 2

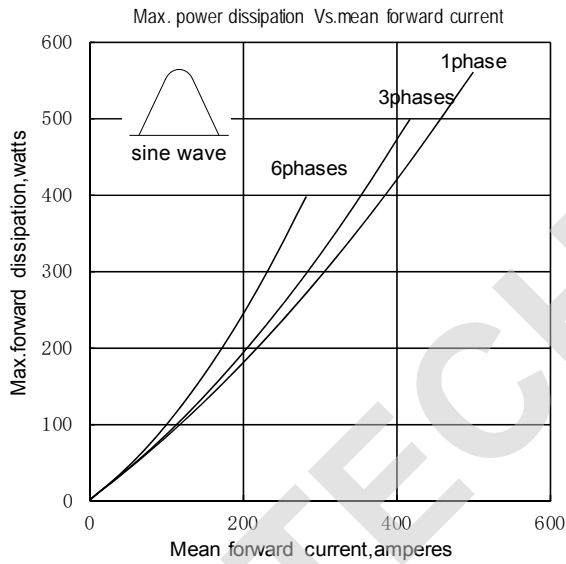


Fig. 3

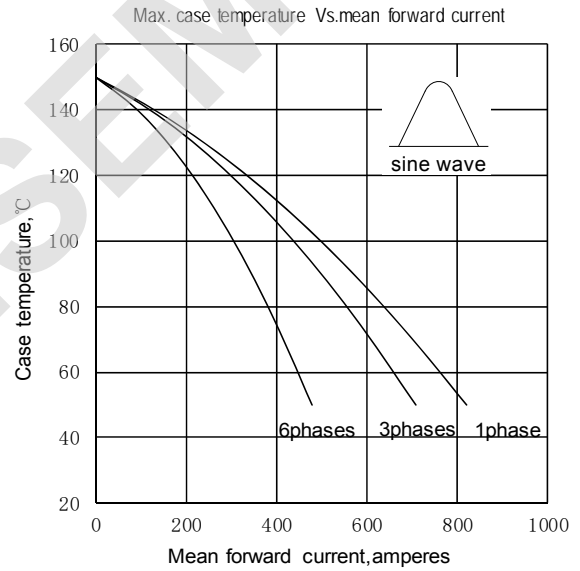


Fig. 4

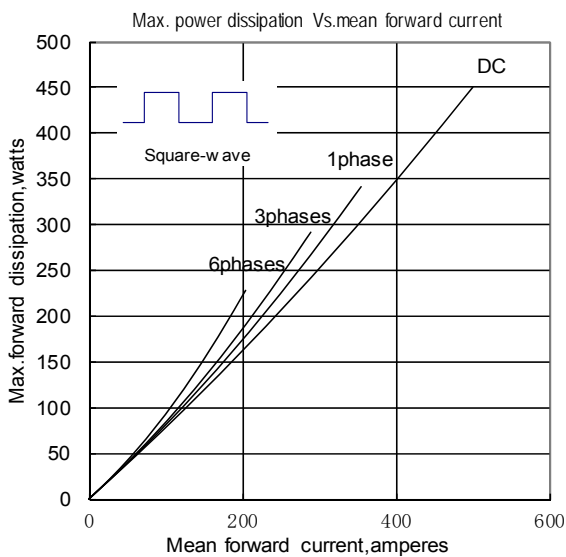


Fig. 5

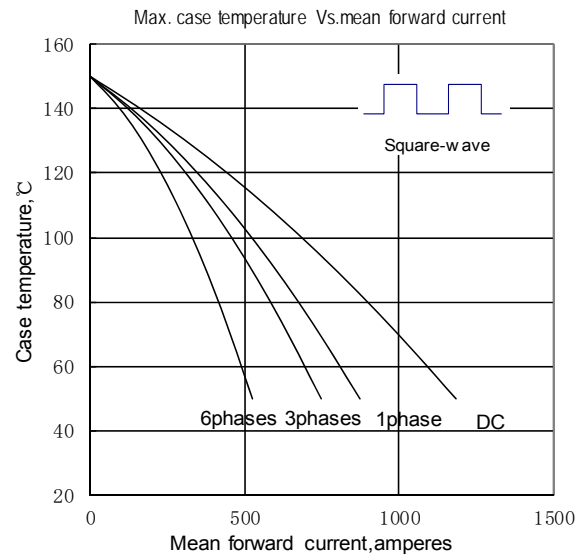


Fig. 6

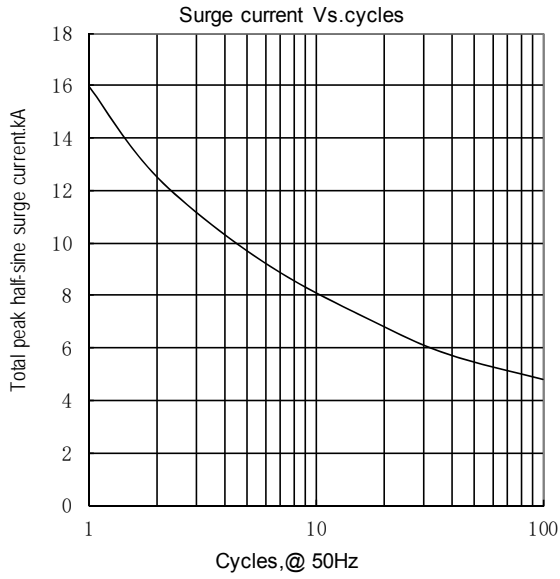


Fig.7

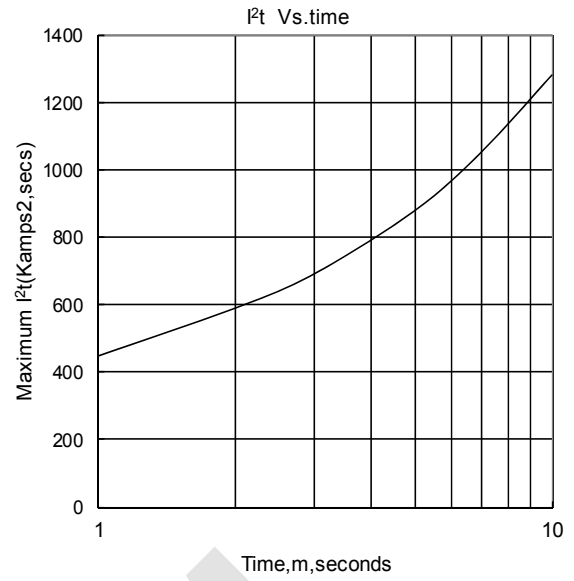
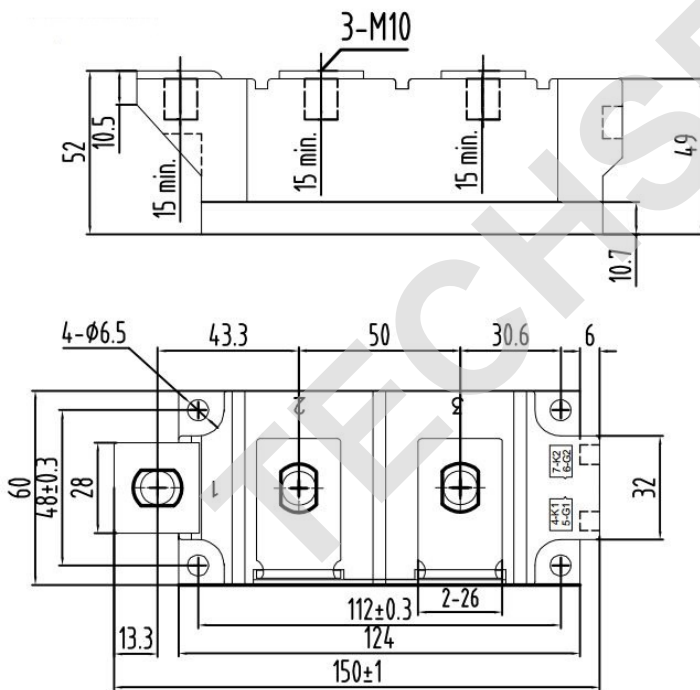


Fig.8

Outline:



Unmarked dimensional tolerance: ±0.5mm

