

Features:

- Isolated mounting base 2500V~
- 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}	Type & Outline
900V	800V	MDx400s-08-405F3
1100V	1000V	MDx400s-10-405F3
1300V	1200V	MDx400s-12-405F3
1500V	1400V	MDx400s-14-405F3
1700V	1600V	MDx400s-16-405F3
1900V	1800V	MDx400s-18-405F3

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 water cooled, T _c =60°C	150			400	A
I _{F(RMS)}	RMS forward current		150			628	A
I _{RRM}	Repetitive peak current	at V _{RRM}	150			30	mA
I _{FSM}	Surge forward current	10ms half sine wave V _R =0.6V _{RRM}	150			13	kA
I ² t	I ² t for fusing coordination					845	A ² s*10 ³
V _{FO}	Threshold voltage		150			0.75	V
r _F	Forward slope resistance					0.64	mΩ
V _{FM}	Peak forward voltage	I _{FM} =1200A	25			1.65	V
R _{th(j-c)}	Thermal resistance Junction to case	At 180° sine Single side cooled per chip				0.16	°C /W
R _{th(c-h)}	Thermal resistance case to heat sink	At 180° sine 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(M8)				12		N·m
	Mounting torque(M6)				6		N·m
T _{stg}	Stored temperature			-40		125	°C
W _t	Weight				1055		g
Outline	405F3						

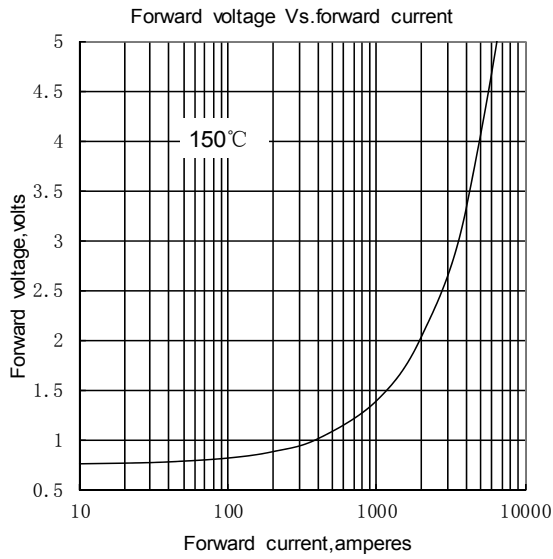


Fig.1

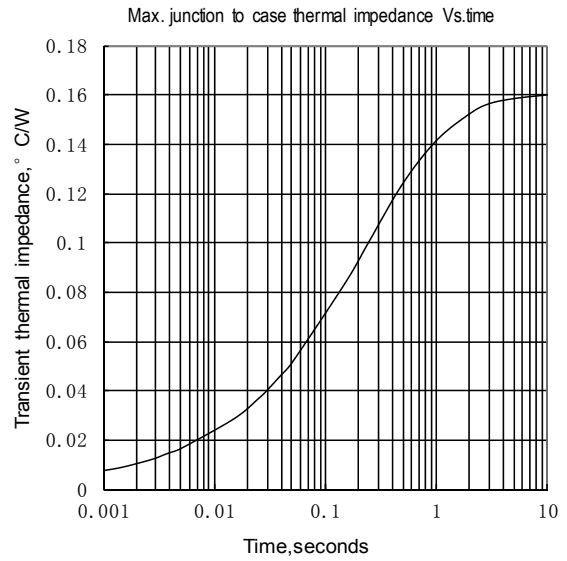


Fig.2

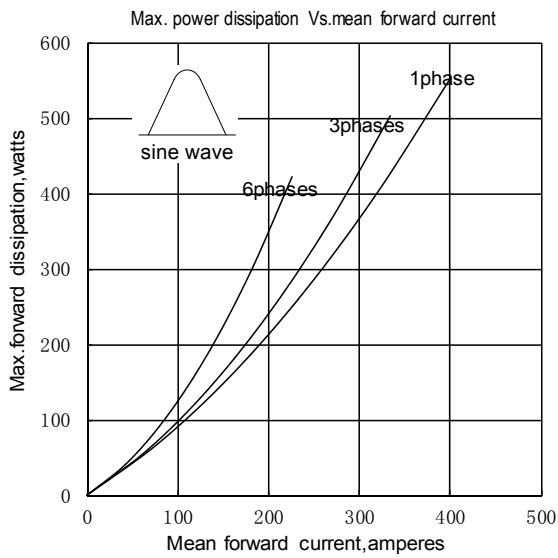


Fig.3

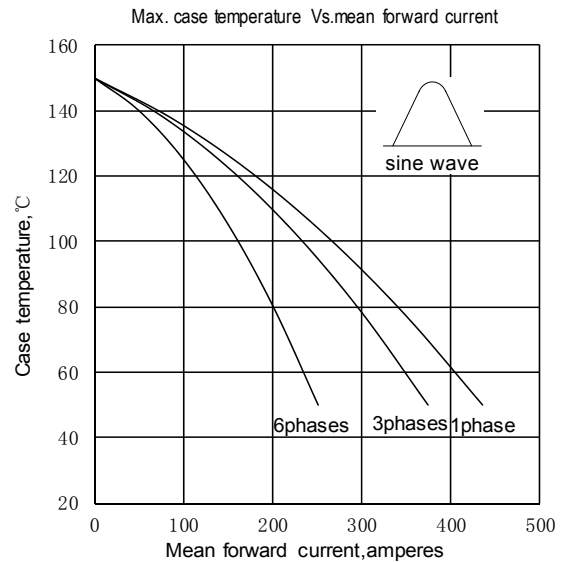


Fig.4

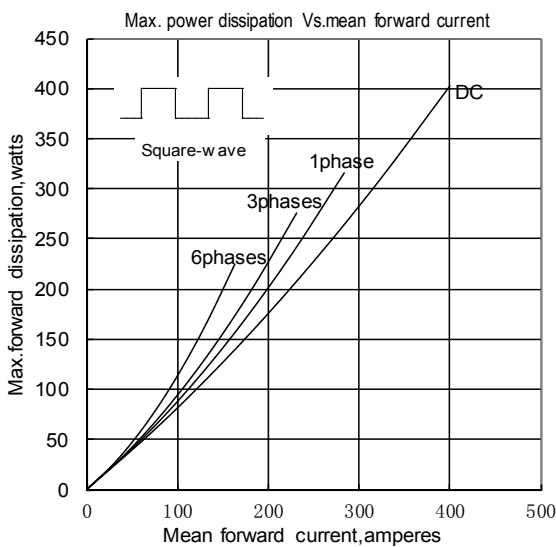


Fig.5

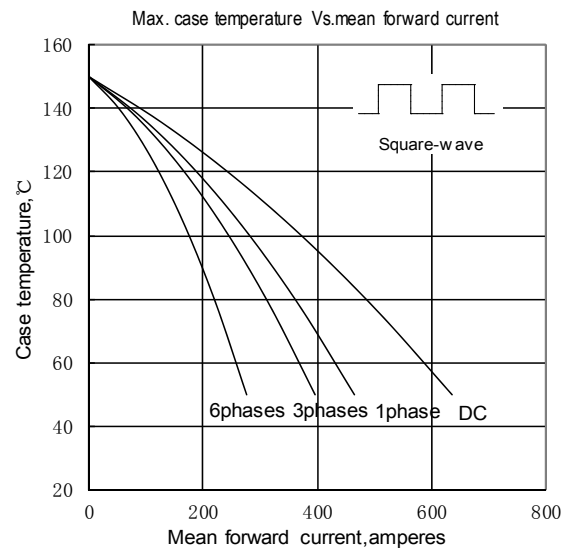


Fig.6

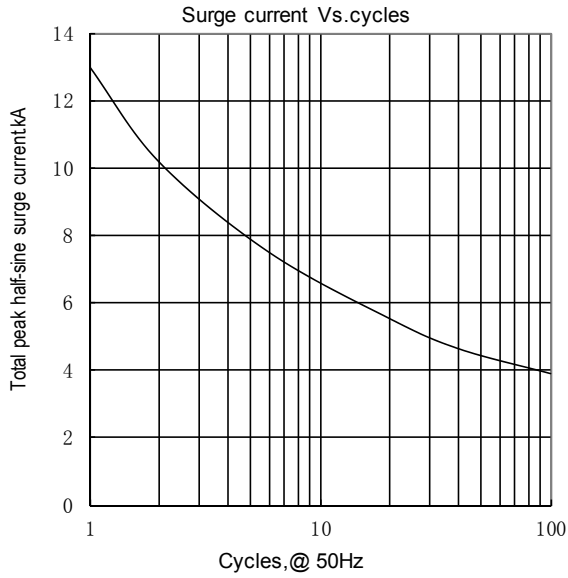


Fig.7

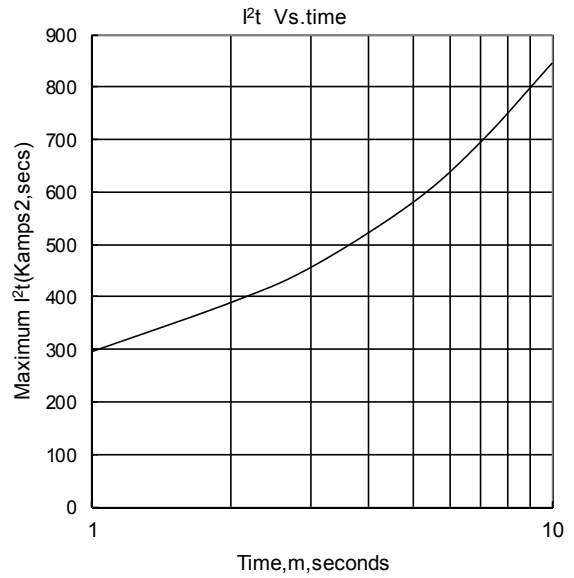
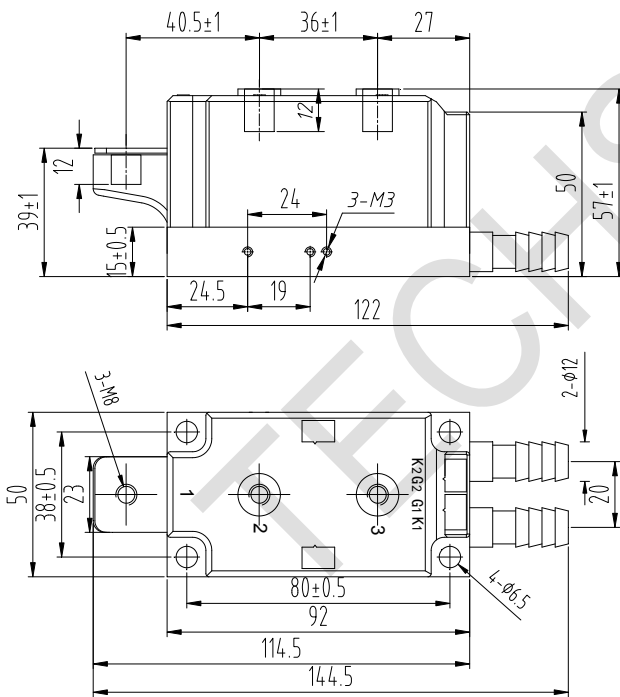
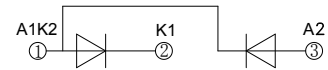


Fig.8

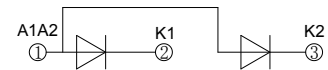
Outline:



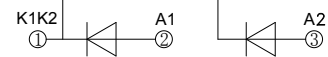
MDC



MDA



MDK



MD

