

Features :

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

Typical Applications

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

V _{RSM}	V _{RRM}	Type
900V	800V	Mx500D80
1100V	1000V	Mx500D100
1300V	1200V	Mx500D120
1500V	1400V	Mx500D140
1700V	1600V	Mx500D160
1900V	1800V	Mx500D180

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		150			785	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			16.0	kA
I ² t	I ² t for fusing coordination					1280	A ² s*10 ³
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	At 180° sine Single side cooled per chip				0.090	°C/W
R _{th(c-h)}	Thermal resistance case to heatsink	At 180° sine 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)				12.0		N·m
	Mounting torque(M6)				6.0		N·m
T _{vj}	Junction temperature			-40		150	°C
T _{stg}	Stored temperature			-40		125	°C
W _t	Weight				1500		g
Outline	M06						

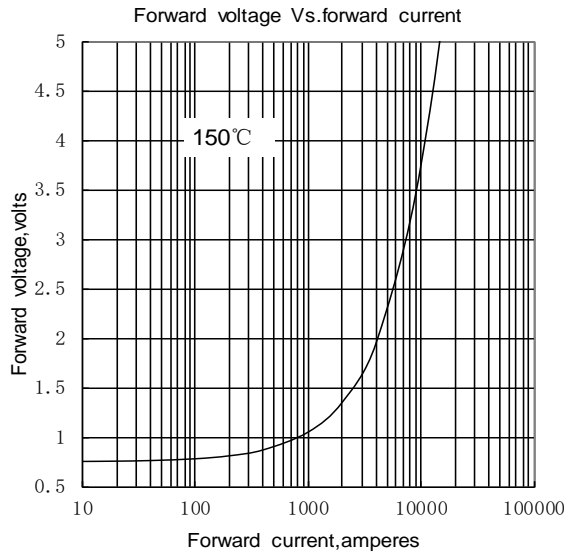


Fig.1

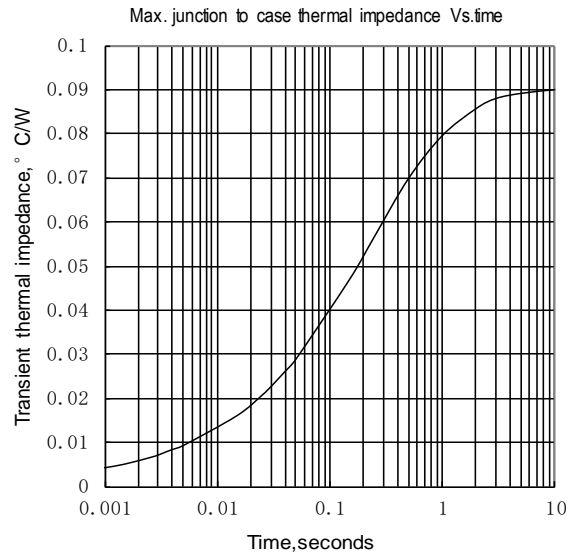


Fig.2

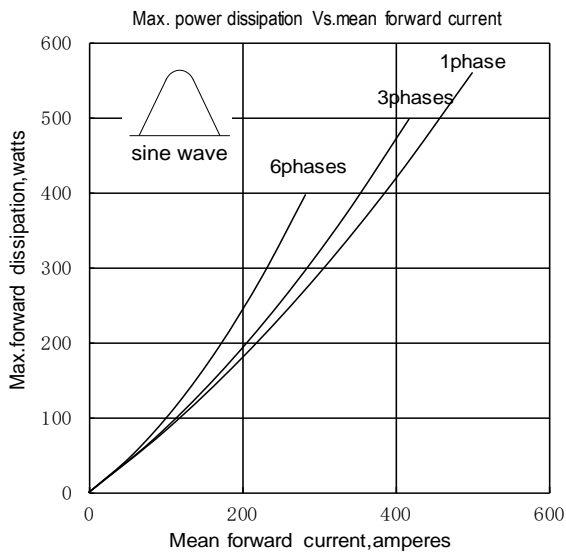


Fig.3

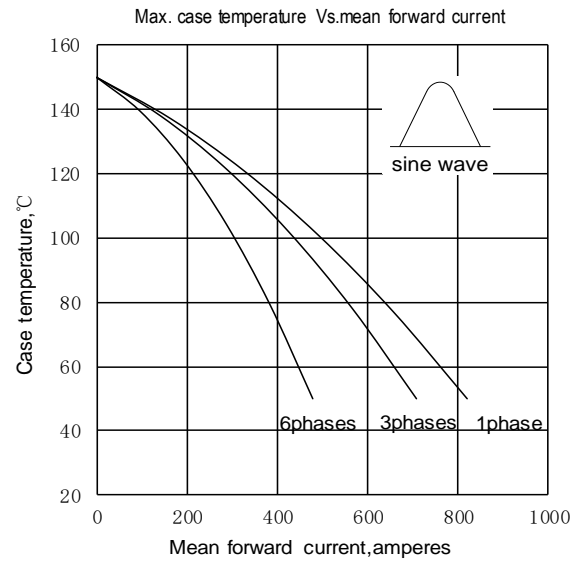


Fig.4

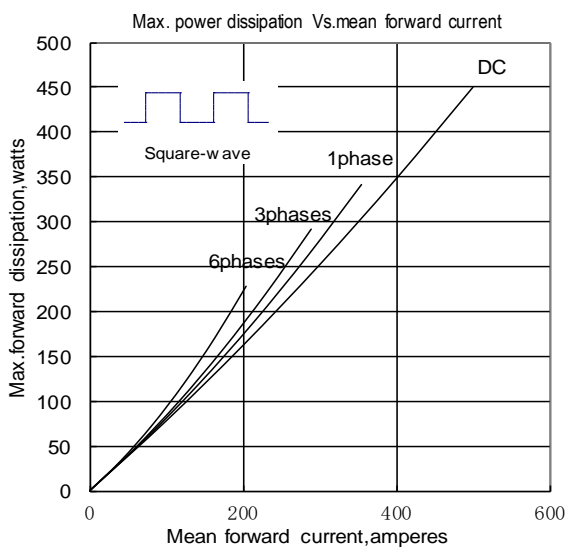


Fig.5

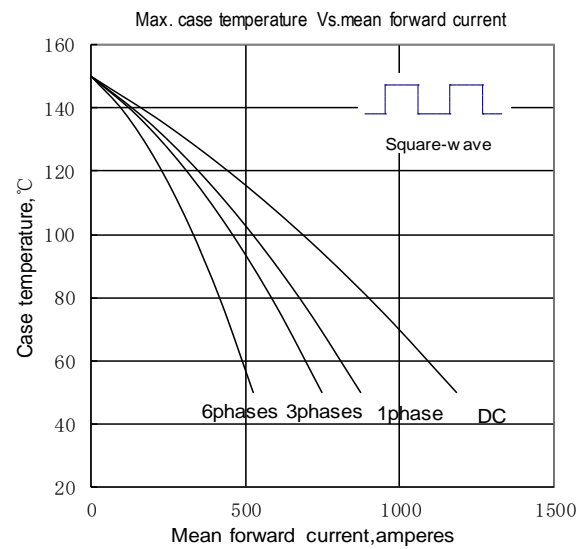


Fig.6

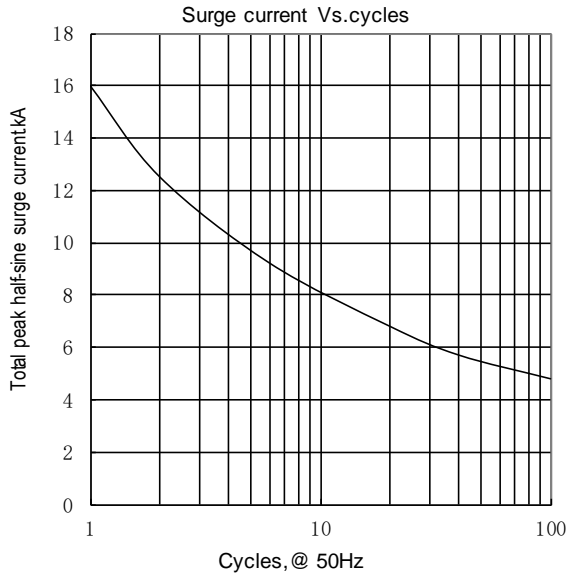


Fig.7

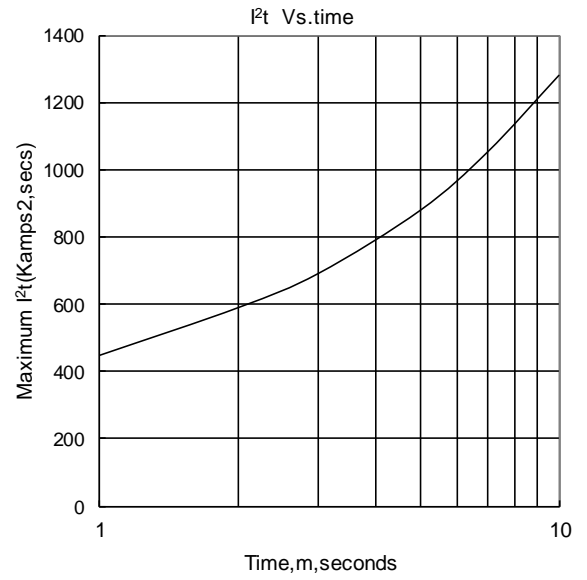


Fig.8

Outline:

