

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	Mx380D80
1100V	1000V	Mx380D100
1300V	1200V	Mx380D120
1500V	1400V	Mx380D140
1700V	1600V	Mx380D160
1900V	1800V	Mx380D180

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			380	A
I _{F(RMS)}	RMS forward current		150			596.6	A
I _{RRM}	Repetitive peak current	at V _{RRM}	150			20	mA
I _{FSM}	Surge forward current	10ms half sine wave V _R =0.6V _{RRM}	150			9.5	kA
I ² t	I ² t for fusing coordination					451.25	A ² s*10 ³
V _{FO}	Threshold voltage		150			0.72	V
r _F	Forward slope resistance					0.40	mΩ
V _{FM}	Peak forward voltage	I _{FM} =1100A	25			1.40	V
R _{th(j-c)}	Thermal resistance Junction to case	At 180° sine Single side cooled per chip				0.12	°C/W
R _{th(c-h)}	Thermal resistance case to heatsink	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)		3000			V
F _m	Terminal connection torque(M8)				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				810		g
Outline	M03						

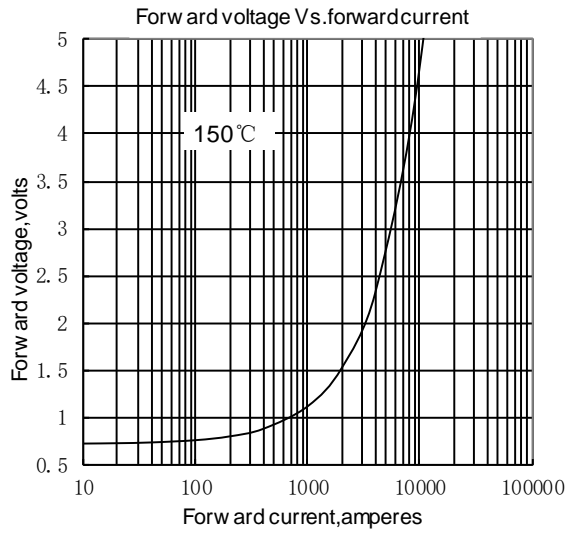


Fig. 1

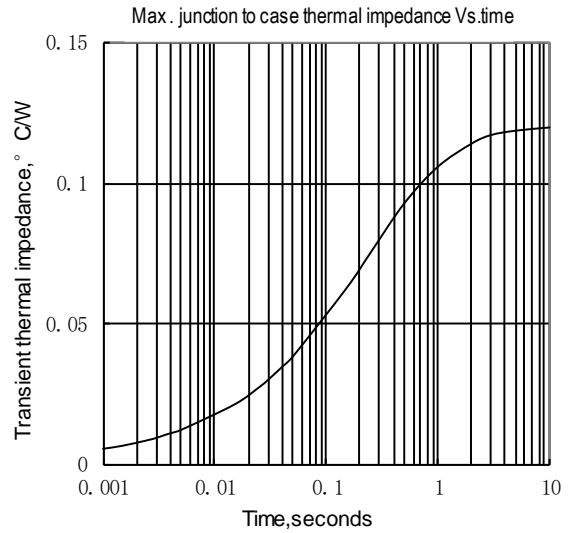


Fig. 2

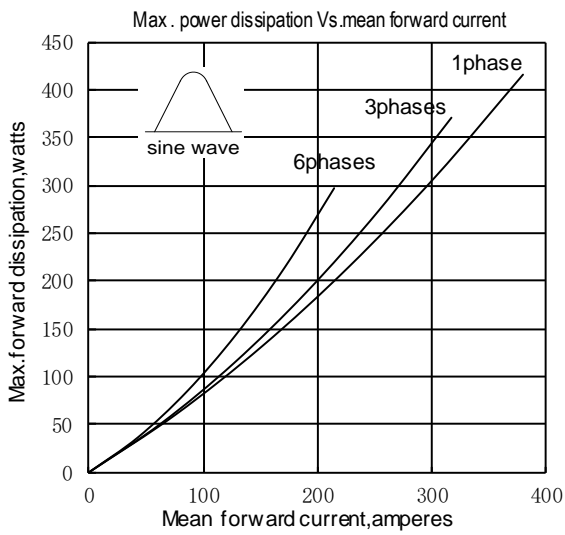


Fig. 3

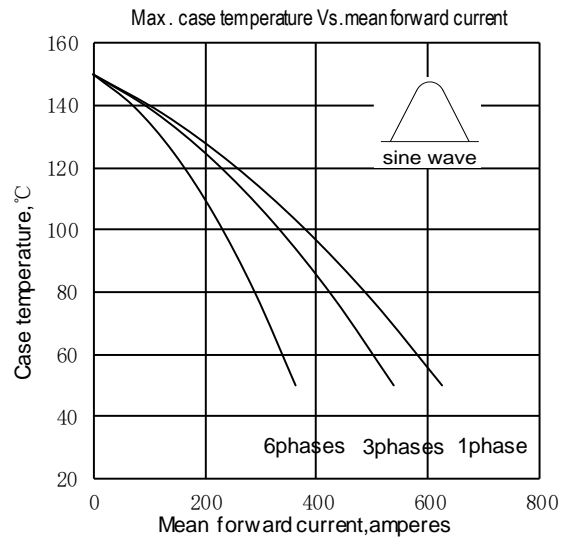


Fig. 4

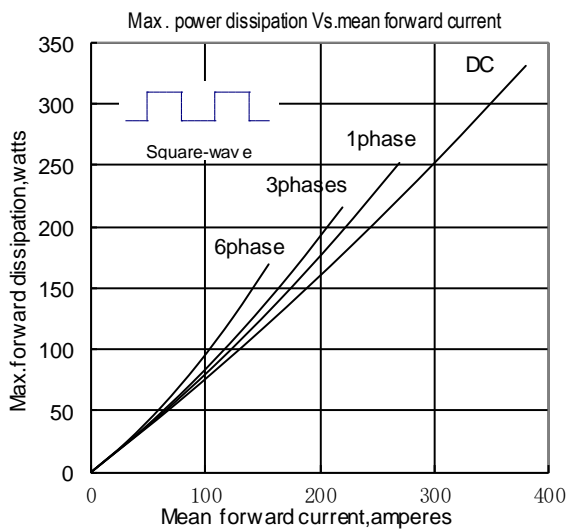


Fig. 5

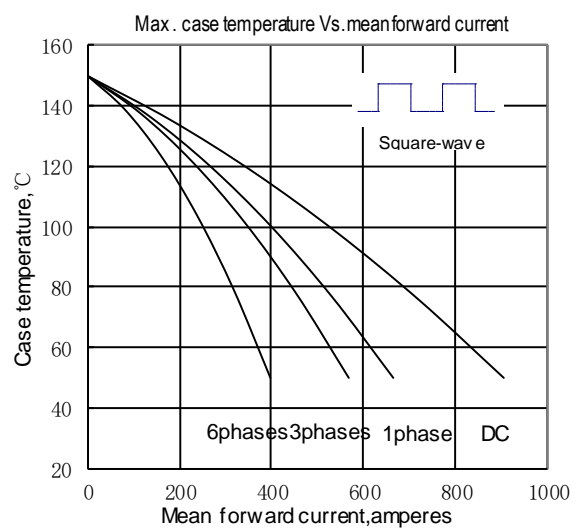


Fig. 6

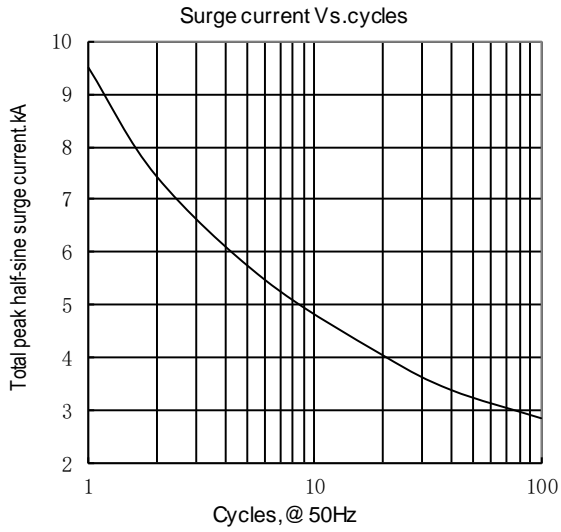


Fig.7

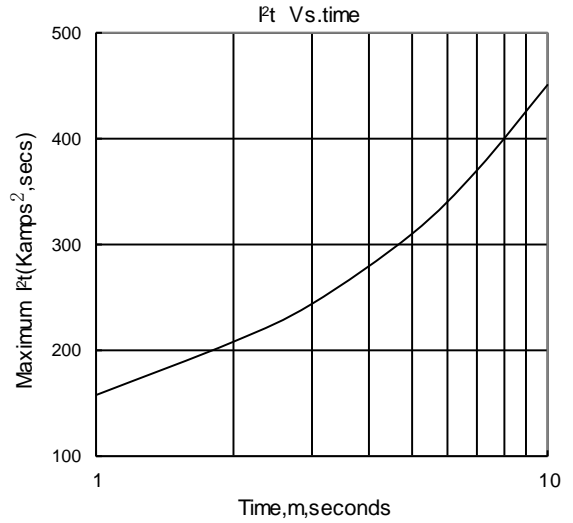


Fig.8

Outline:

