Features :

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

Typical Applications

- Inverter
- Inductive heating
- Chopper

V_{RSM}	V_{RRM}	Type
900V	800V	Mx300DF80
1100V	1000V	Mx300DF100
1300V	1200V	Mx300DF120
1500V	1400V	Mx300DF140
1700V	1600V	Mx300DF160
1900V	1800V	Mx300DF180

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			300	A
$I_{F\ (RMS)}$	RMS forward current					471	A
I_{RRM}	Repetitive peak current	at V_{RRM}	150			70	mA
I_{FSM}	Surge forward current	10ms half sine wave V_R=0.6V_{RRM}	150			8.30	kA
I^2t	I^2t for fusing coordination					344	A^2s*10^3
V_{FO}	Threshold voltage		150			0.95	V
r_F	Forward slope resistance					0.48	mΩ
V_{FM}	Peak forward voltage	I_{FM}=900A	25			1.55	V
t_{rr}	Reverse recovery time	I_{FM}=300A,tp=2000μs, -di/dt=20A/μs,V_R=50V	150			4.0	μs
$R_{th(j-c)}$	Thermal resistance Junction to case	Single side cooled per chip				0.120	°C /W
$R_{th(c-h)}$	Thermal resistance case to heatsink	Single side cooled per chip				0.040	°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_{vj}	Junction temperature			-40		140	°C
T_{stg}	Stored temperature			-40		125	°C
W_t	Weight				1275		g
Outline	M05						

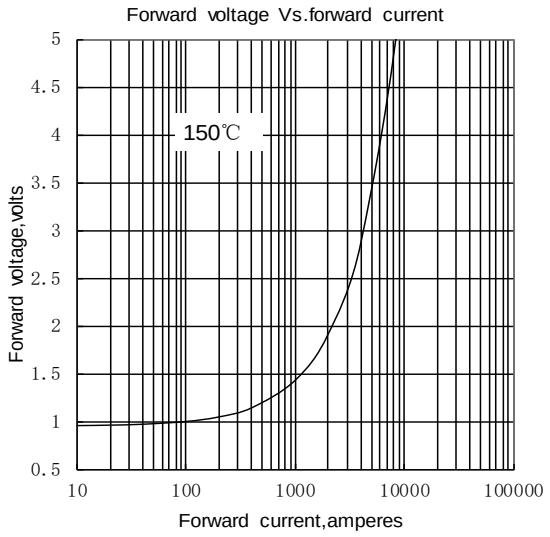

Fig.1

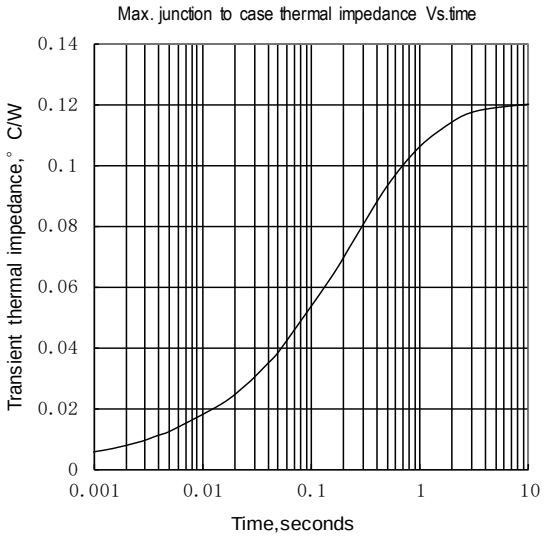

Fig.2

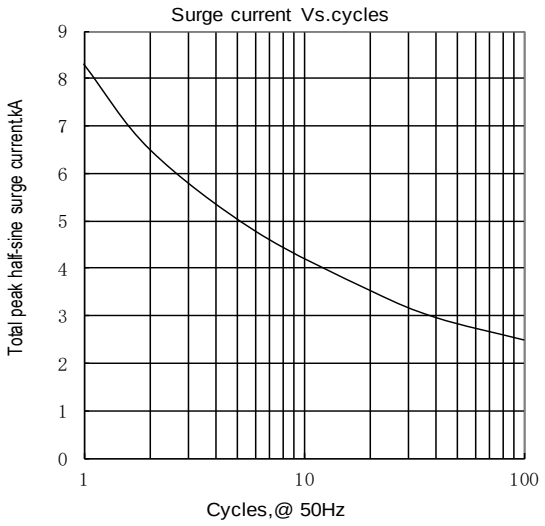

Fig.3

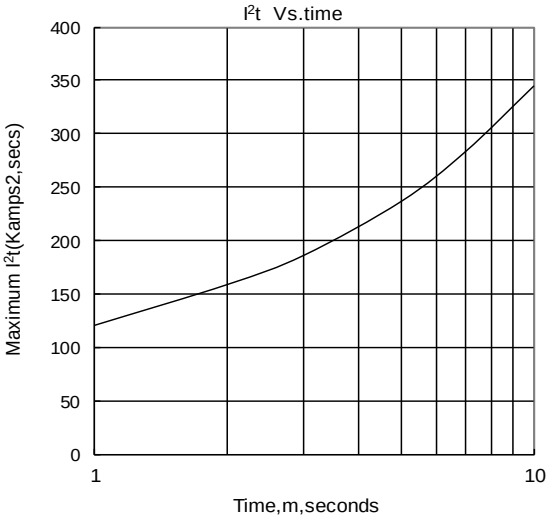

Fig.4

Outline: