

Features :

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

Typical Applications

- Inverter
- Inductive heating
- Chopper

V _{RSM}	V _{RRM}	品名
700V	600V	Mx200DF60
900V	800V	Mx200DF80
1100V	1000V	Mx200DF100
1300V	1200V	Mx200DF120
1500V	1400V	Mx200DF140
1700V	1600V	Mx200DF160
1900V	1800V	Mx200DF180

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 =85°C	140			200	A
I _{F(RMS)}	RMS forward current					314	A
I _{RRM}	Repetitive peak current	at V _{RRM}	140			40	mA
I _{FSM}	Surge forward current	10ms half sine wave V _R =0.6V _{RRM}	140			5.5	kA
I ² t	I ² t for fusing coordination					151	A ² s*10 ³
V _{FO}	Threshold voltage		140			0.95	V
r _F	Forward slope resistance					0.90	mΩ
V _{FM}	Peak forward voltage	I _{FM} =600A	25			1.55	V
t _{rr}	Reverse recovery time	I _{FM} =200A, tp=4000μs, -di/dt=20A/μs, V _R =50V	140		3.0		μs
			25		2.0		μs
R _{th(j-c)}	Thermal resistance Junction to case	D.C. Single side cooled per chip				0.180	°C/W
R _{th(c-h)}	Thermal resistance case to heatsink	D.C. Single side cooled per chip				0.040	°C/W
F _m	Terminal connection torque(M8)			10.0		12.0	N·m
	Mounting torque(M6)			4.5		6.0	N·m
V _{iso}	Isolation voltage	50Hz,R.M.S,t=1min,I _{iso} :1mA(MAX)		3000			V
T _{vj}	Junction temperature			-40		140	°C
T _{stg}	Stored temperature			-40		125	°C
W _t	Weight				770		g
Outline	M03						

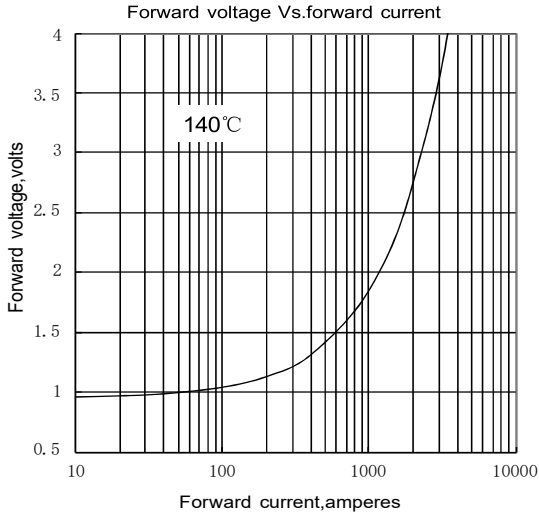


Fig.1

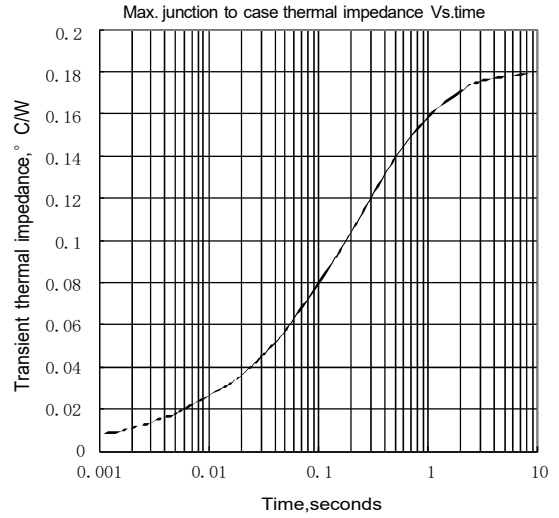


Fig.2

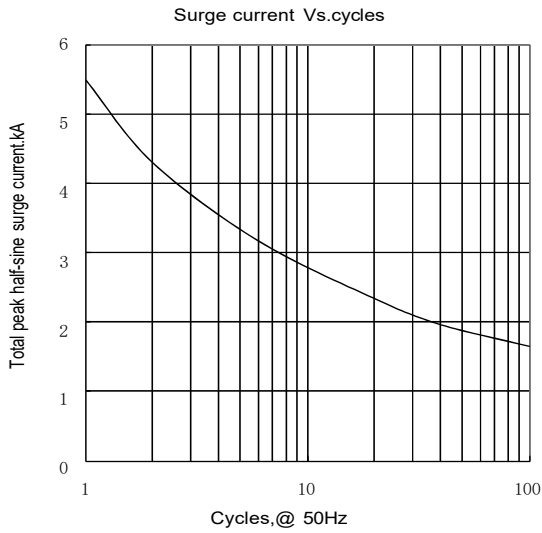
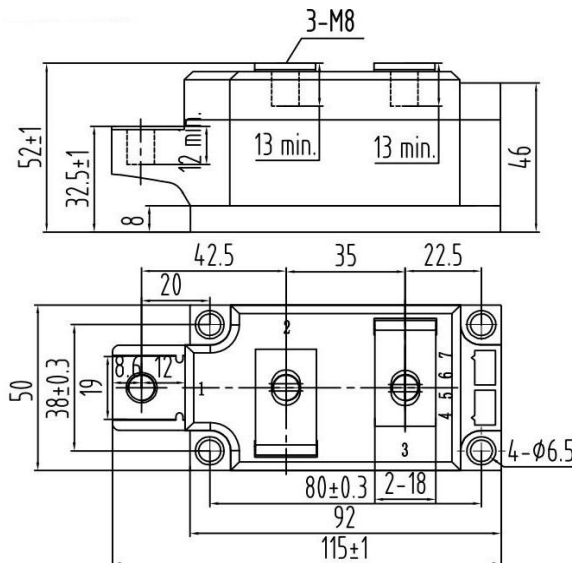


Fig.3

Outline:



Unmarked dimensional tolerance: $\pm 0.5\text{mm}$

