

Features :

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

Typical Applications

- Various rectifiers
- DC supply for PWM inverter

V _{RSM}	V _{RSM}	品名
900V	800V	Mx90D80
1100V	1000V	Mx90D100
1300V	1200V	Mx90D120
1500V	1400V	Mx90D140
1700V	1600V	Mx90D160
1900V	1800V	Mx90D180

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	T _j (°C)	VALUE			UNIT
				Min.	Typ.	Max.	
I _{F(AV)}	Mean forward current	180° half sine wave 50Hz Single side cooled, T _c =100°C	150			90	A
I _{F(RMS)}	RMS forward current		150			141	A
I _{R(RM)}	Repetitive peak current	at V _{R(RM)}	150			8	mA
I _{F(SM)}	Surge forward current	10ms half sine wave V _R =0.6V _{R(RM)}	150			2.3	kA
I ² t	I ² t for fusing coordination					26	A ² s*10 ³
V _{FO}	Threshold voltage		150			0.80	V
r _F	Forward slope resistance					1.70	mΩ
V _{FM}	Peak forward voltage	I _{FM} =270A	25			1.38	V
R _{th(j-c)}	Thermal resistance Junction to case	D.C. Single side cooled per chip				0.47	°C/W
R _{th(c-h)}	Thermal resistance case to heatsink	D.C. Single side cooled per chip				0.20	°C/W
V _{iso}	Isolation voltage	50Hz, R.M.S, t=1min, I _{iso} : 1mA(max)		3000			V
F _m	Terminal connection torque(M5)			2.4		3.0	N·m
	Mounting torque(M6)				6		N·m
T _{vj}	Junction temperature			-40		150	°C
T _{stg}	Stored temperature			-40		125	°C
W _t	Weight				170		g
Outline	M01						

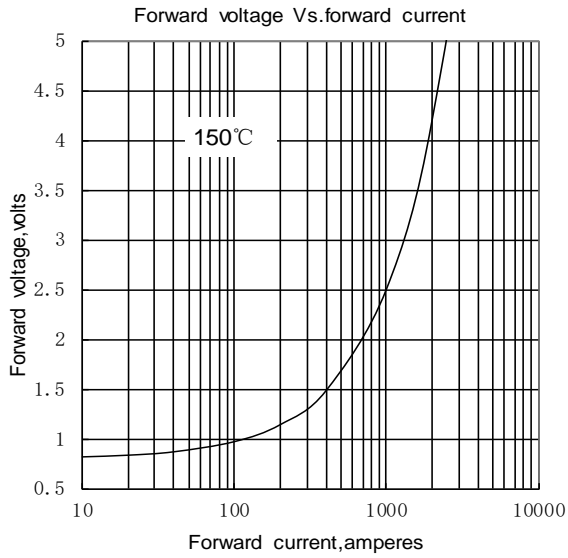


Fig.1

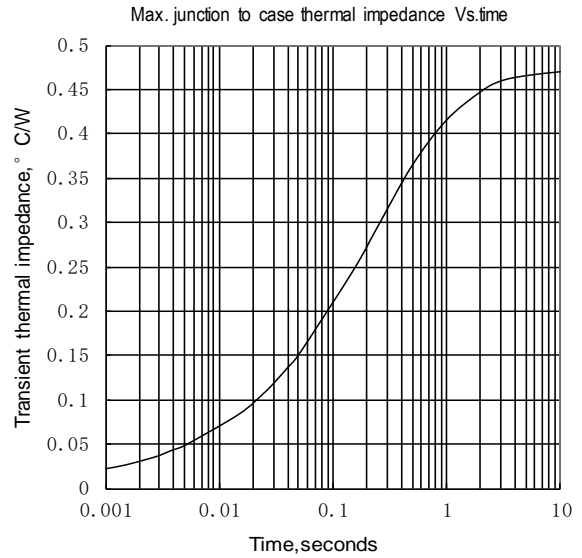


Fig.2

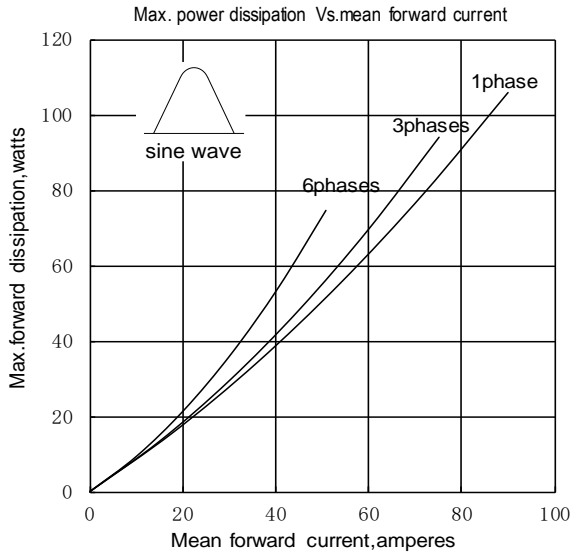


Fig.3

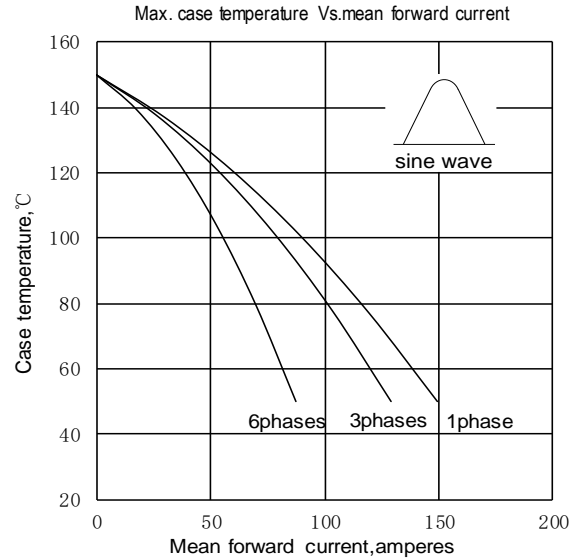


Fig.4

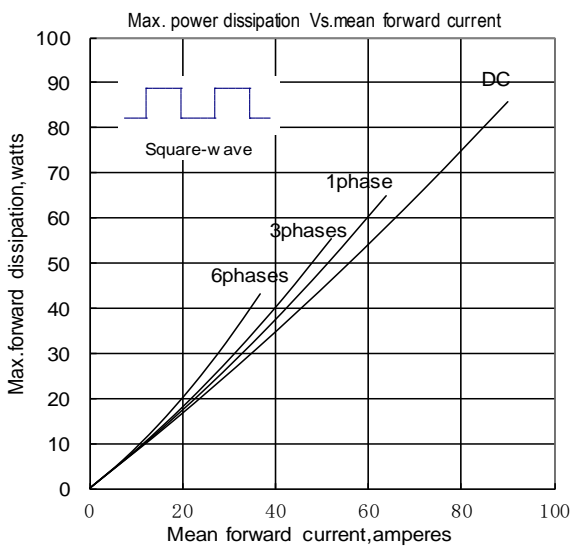


Fig.5

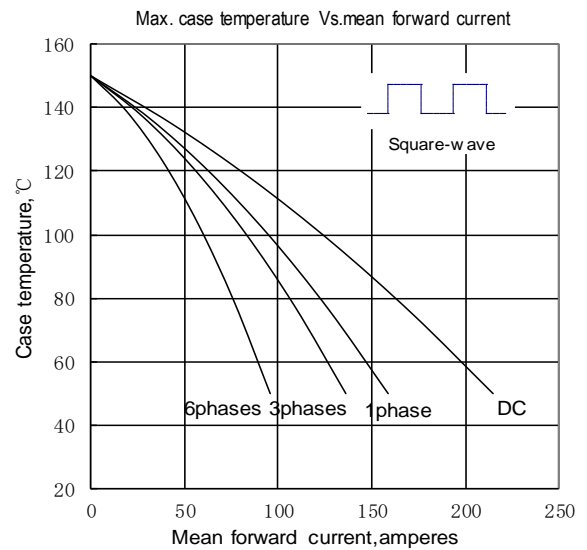


Fig.6

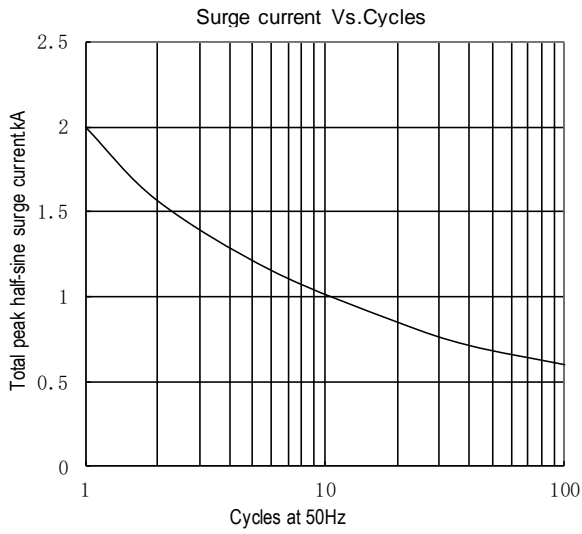
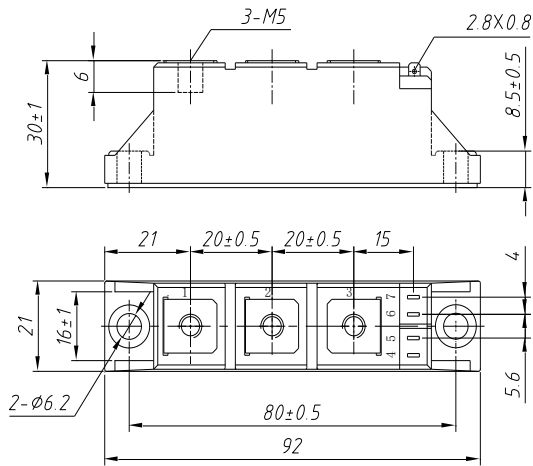
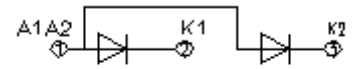


Fig.7



Unmarked dimensional tolerance : ±0.5mm

MR90D**



MC90D**

