

Features :

- Isolated mounting base 3000V~
- Solder joint technology with increased power cycling capability
- Space and weight saving

Typical Applications

- Various rectifiers
- DC supply for PWM inverter

V _{RSM}	V _{RRM}	品名
900V	800V	MD70D80S
1100V	1000V	MD70D100S
1300V	1200V	MD70D120S
1500V	1400V	MD70D140S
1700V	1600V	MD70D160S
1900V	1800V	MD70D180S

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			70	A
I _{F(RMS)}	RMS forward current		150			110	A
I _{RRM}	Repetitive peak current	at V _{RRM}	150			8	mA
I _{FSM}	Surge forward current	10ms half sine wave V _R =0.6V _{RRM}	150			1.9	kA
I ² t	I ² t for fusing coordination					18.1	A ² s*10 ³
V _{FO}	Threshold voltage		150			0.80	V
r _F	Forward slope resistance					2.50	mΩ
V _{FM}	Peak forward voltage	I _{FM} =210A	25			1.45	V
R _{th(j-c)}	Thermal resistance Junction to case	Single side cooled per chip				0.57	°C/W
R _{th(c-h)}	Thermal resistance case to heatsink	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)			3.5		5.0	N·m
T _{stg}	Stored temperature			-40		125	°C
W _t	Weight				95		g
Outline	M16						

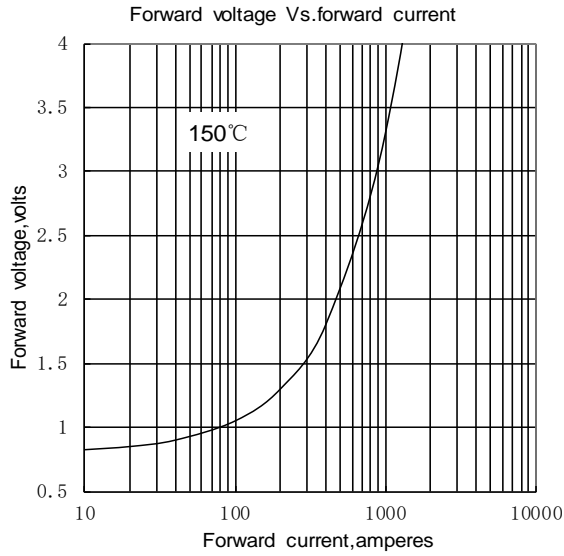


Fig1

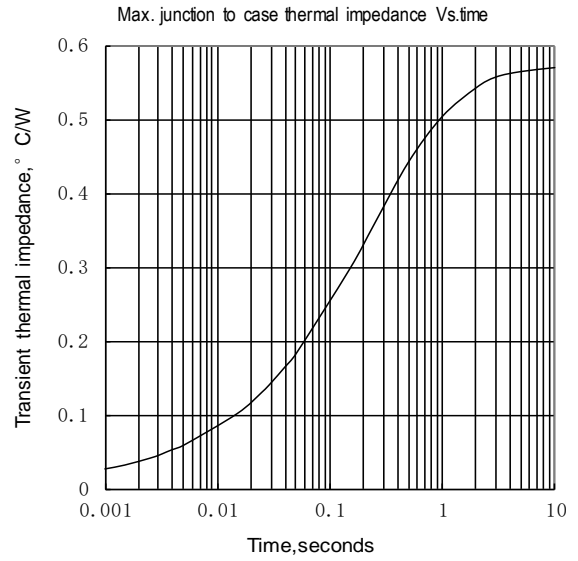


Fig2

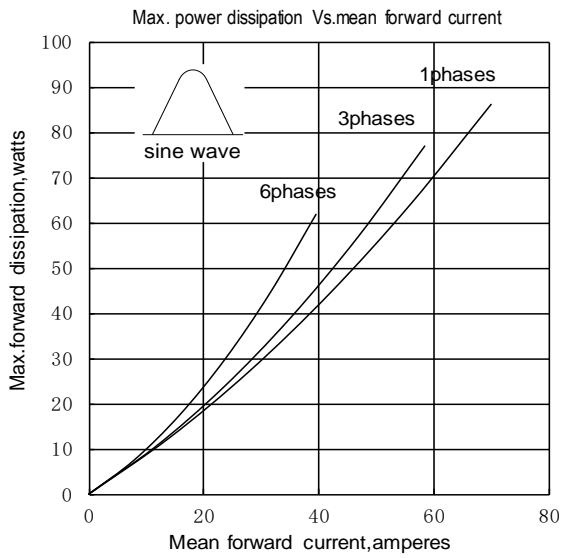


Fig3

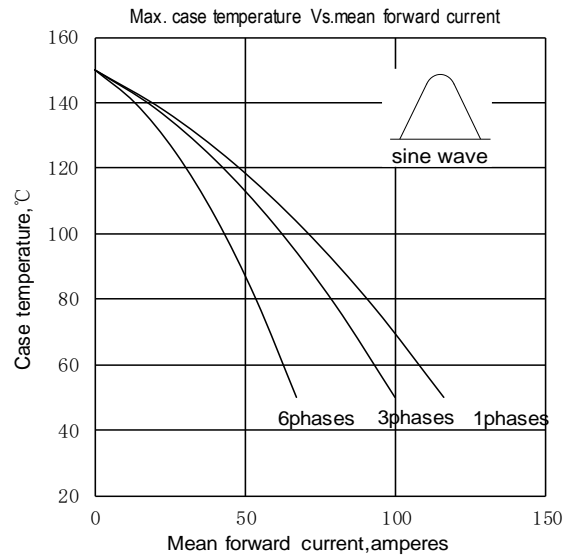


Fig4

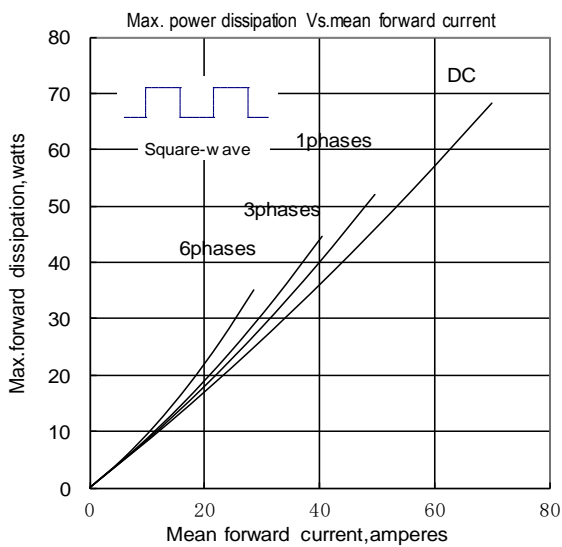


Fig5

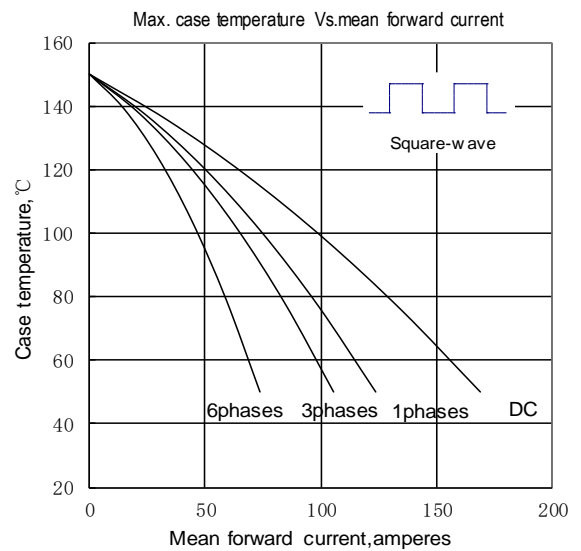


Fig6

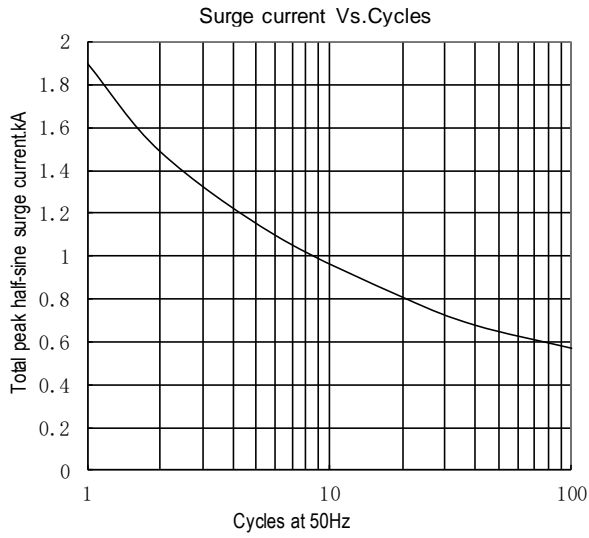


Fig.7

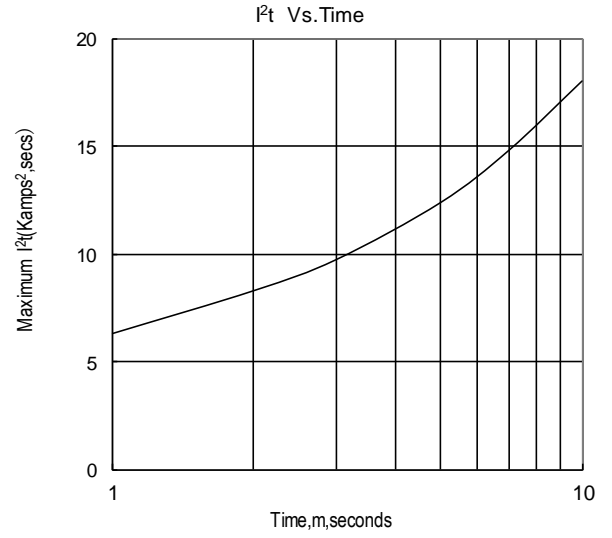
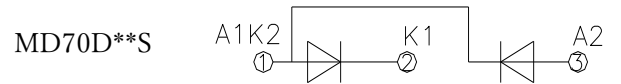
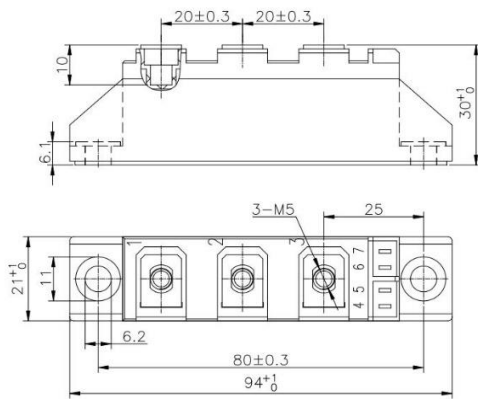


Fig.8



Unmarked dimensional tolerance : ±0.5mm