



Features:

- High performance thermal insulation materials
- Good thermal fatigue performance
- International standard package

Typical Applications

- Various rectifiers
- DC supply for PWM inverter

V _{RSM}	V _{RRM}	Type & Outline
900V	800V	MDx46-08
1100V	1000V	MDx46-10
1300V	1200V	MDx46-12
1500V	1400V	MDx46-14
1700V	1600V	MDx46-16
1900V	1800V	MDx46-18

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			46	A
I _{F(RMS)}	RMS forward current		150			72	A
I _{RRM}	Repetitive peak current	at V _{RRM}	150			8	mA
I _{FSM}	Surge forward current	10ms half sine wave	150			1.30	KA
I ² t	I ² T for fusing coordination	V _R =0.6V _{RRM}				8.45	A ² s*10 ³
V _{FO}	Threshold voltage		150			0.80	V
r _F	Forward slop resistance					3.47	mΩ
V _{FM}	Peak forward voltage	I _{FM} =140A	25			1.45	V
R _{th(j-c)}	Thermal resistance Junction to case	At 180° sine: Single side cooled per chip				0.70	°C/W
R _{th(c-h)}	Thermal resistance case to heatsink	At 180° sine: Single side cooled per chip				0.2	°C/W
V _{iso}	Isolation voltage	50Hz, R.M.S, t=1min, I _{iso} :1mA(max)		2500			V
F _m	Terminal connection torque(M5)				4.0		N·m
	Mounting torque(M6)				6.0		N·m
T _{stg}	Stored temperature			-40		125	°C
W _t	Weight				105		g
Outline	M01H						

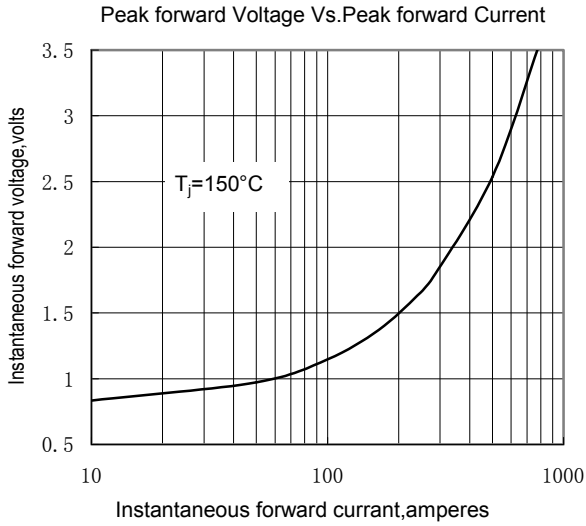


Fig.1

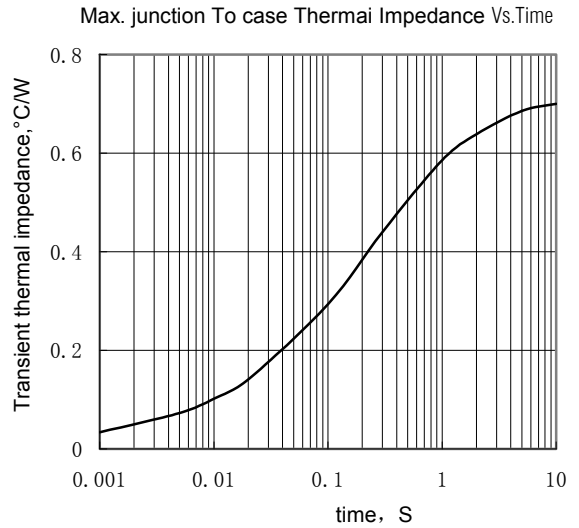


Fig.2

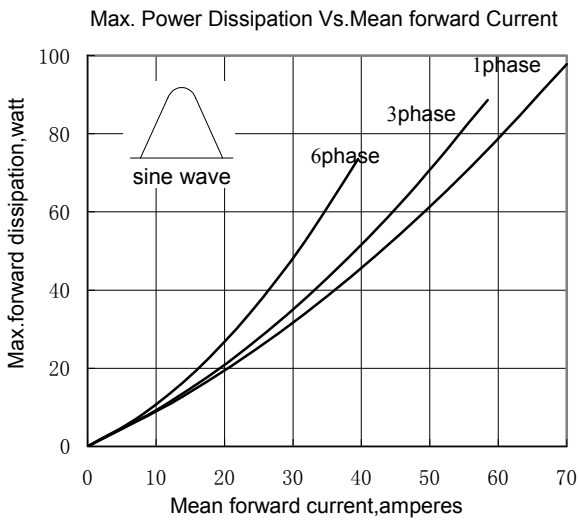


Fig.3

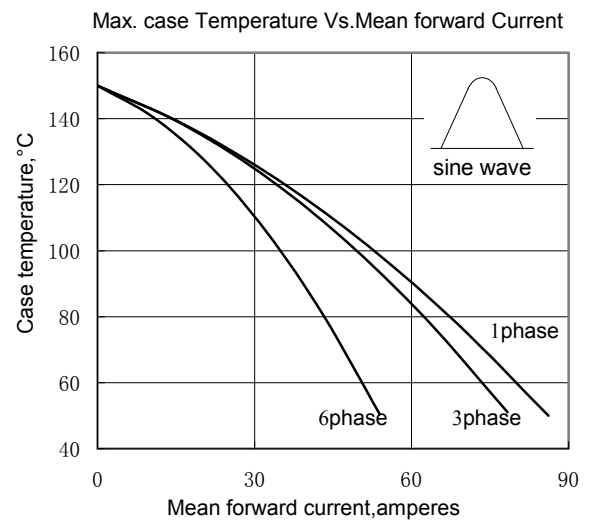


Fig.4

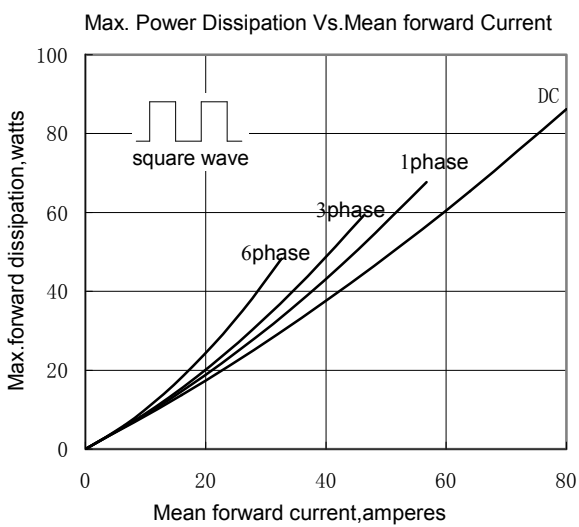


Fig.5

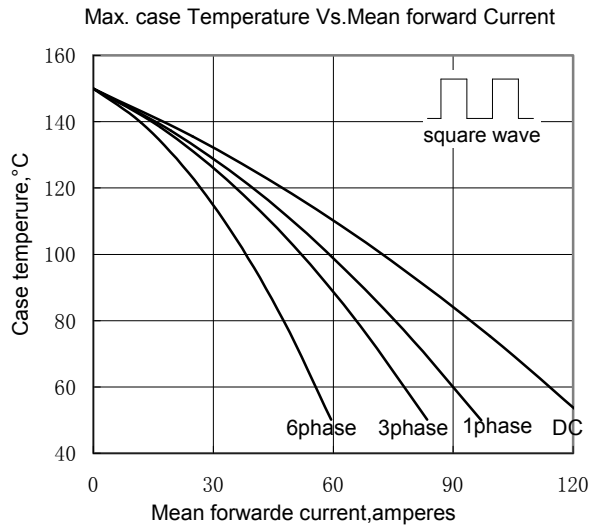


Fig.6

Surge Current Vs.Cycles

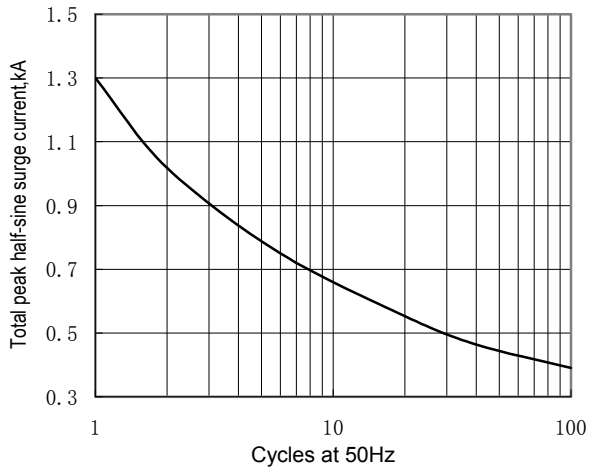


Fig.7

I^2t Vs.Time

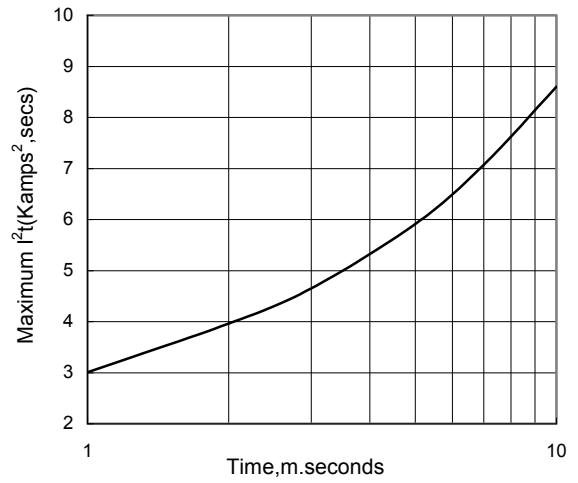
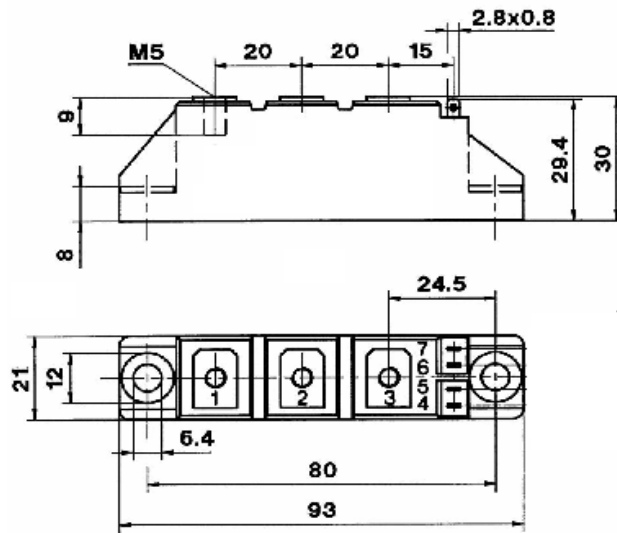


Fig.8

Outline:



M01H

