TECHSEM

MDS50
Three Phases Rectification Bridge Modules

Features：

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

Typical Applications

- Inverter
- Inductive heating
- Chopper

V_{RSM}	V_{RRM}	Type & Outline
900 V	800 V	MDS50-08-218H5
1300 V	1200 V	MDS50-12-218H5
1500 V	1400 V	MDS50-14-218H5
1700 V	1600 V	MDS50-16-218H5

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	T_j(°C)	VALUE			UNIT
				Min	Type	Max	
I_O	DC output current	Three-phase full wave rectifying circuit, T_C=100°C	150			50	A
I_{RRM}	Repetitive peak current	at V_{RRM}	150			8	mA
I_{FSM}	Surge forward current	10ms half sine wave V_R=0	100			0.40	KA
I^2t	I^2T for fusing coordination					0.8	A^2s*10^3
V_{FO}	Threshold voltage		150			0.7	V
r_F	Forward slop resistance					6.0	mΩ
V_{FM}	Peak forward voltage	I_{FM}=50A	25			1.20	V
$R_{th(j-c)}$	Thermal resistance Junction to case	Single side cooled				0.30	°C /W
$R_{th(c-h)}$	Thermal resistance case to heatsink	Single side cooled				0.07	°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		N·m
	Mounting torque(M6)				6		N·m
Tvj	junction temperature			-40		150	°C
T_{stg}	Stored temperature			-40		125	°C
W_t	Weight				210		g
Outline	218H5						

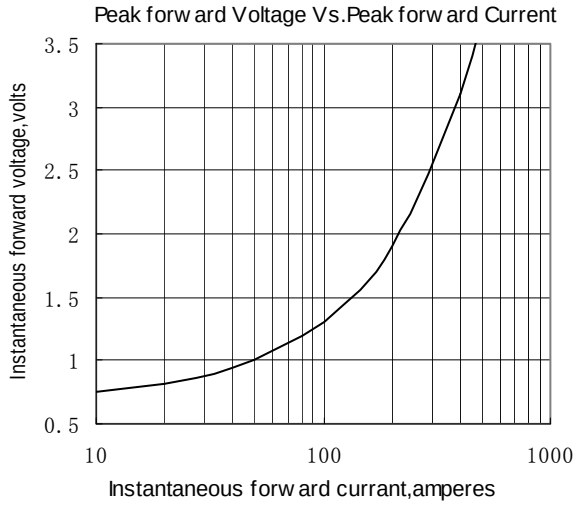


Fig.1

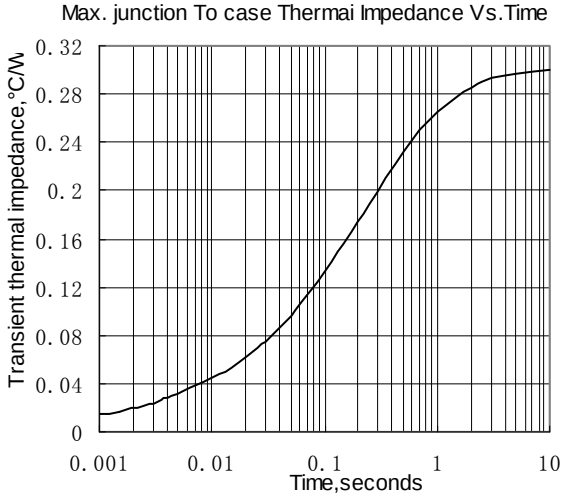


Fig.2

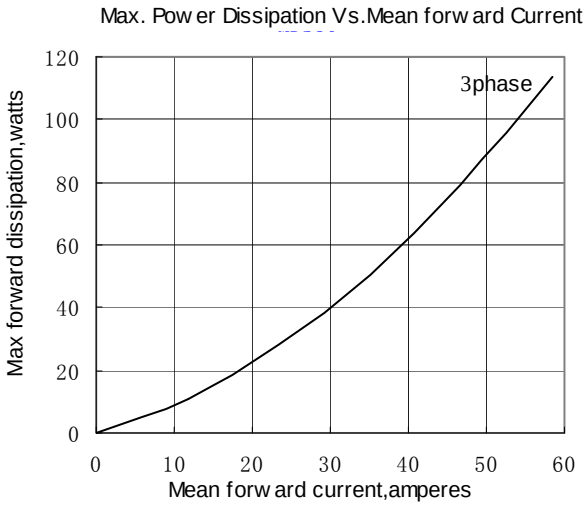


Fig.3

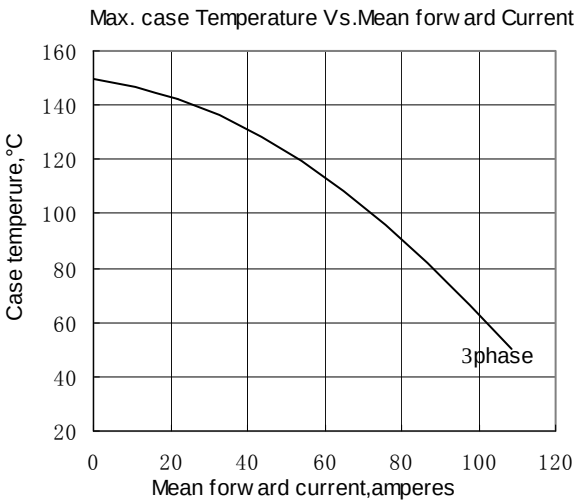


Fig.4

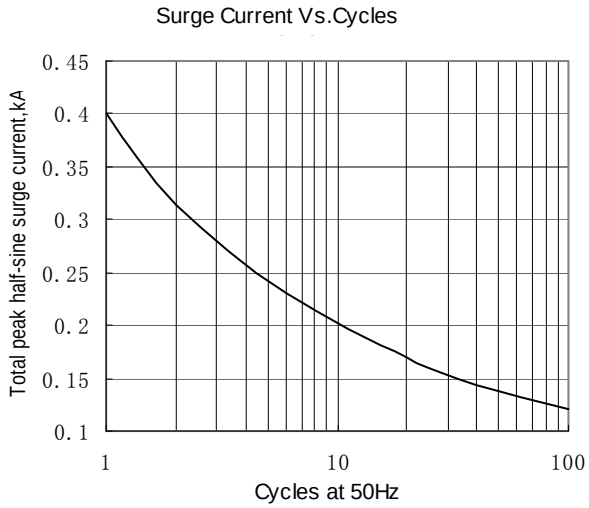


Fig.5

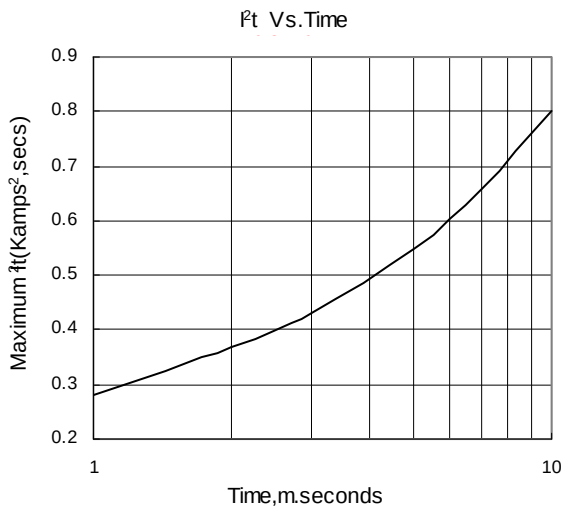
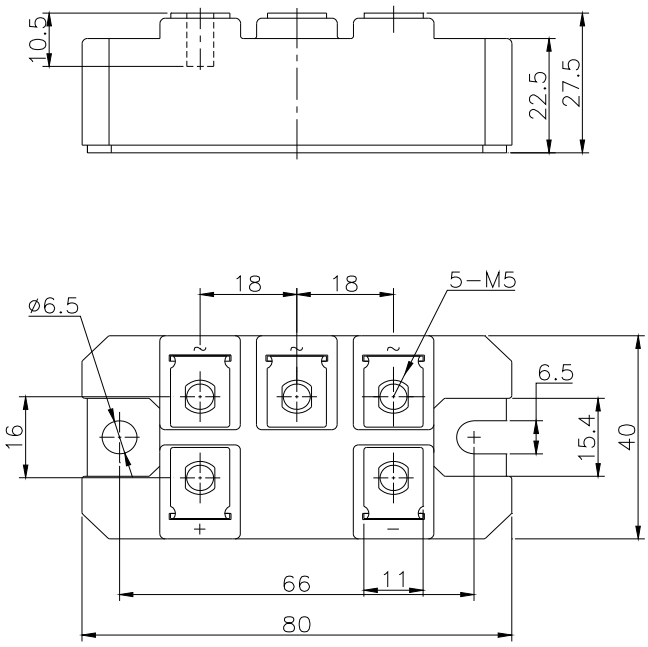


Fig.6

Outline:



218H5

MDS