TECHSEM

MDS200
Three Phases Rectification Bridge Modules

Features：

- Isolated mounting base 2500V~
- Solder joint technology with Increased power cycling capability
- Space and weight saving

Typical Applications

- Inverter
- Inductive heating
- Chopper

V_{RSM}	V_{RRM}	Type & Outline
900V	800V	MDS200-08-234H5
1100V	1000V	MDS200-10-234H5
1300V	1200V	MDS200-12-234H5
1500V	1400V	MDS200-14-234H5
1700V	1600V	MDS200-16-234H5
1900V	1800V	MDS200-18-234H5

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			200	A
I_{RRM}	Repetitive peak current	at V_{RRM}	150			12	mA
I_{FSM}	Surge forward current	10ms half sine wave V_R=0	100			1.7	kA
I^2t	I^2t for fusing coordination					14.7	A^2s*10^3
V_{FO}	Threshold voltage		150			0.75	V
r_F	Forward slope resistance					2.0	mΩ
V_{FM}	Peak forward voltage	I_{FM}=200A	25			1.50	V
$R_{th(j-c)}$	Thermal resistance Junction to case	Single side cooled				0.10	°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(M6)				6.0		N·m
	Mounting torque(M6)				6.0		N·m
T_{stg}	Stored temperature			-40		125	°C
W_t	Weight	221H5/234H5			250		g
		411H5			330		g
Outline	221H5/411H5/234H5						

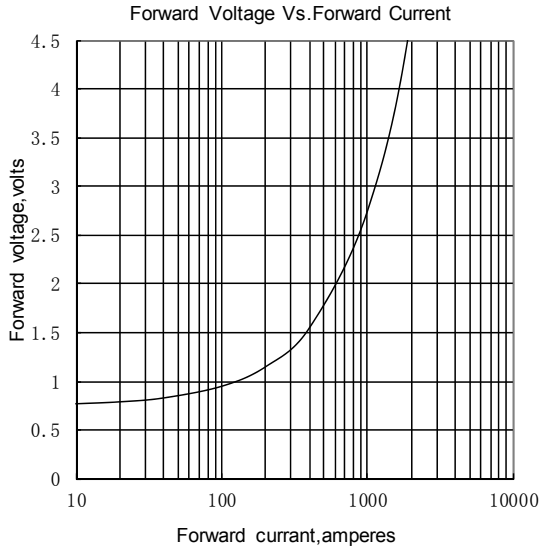


Fig.1

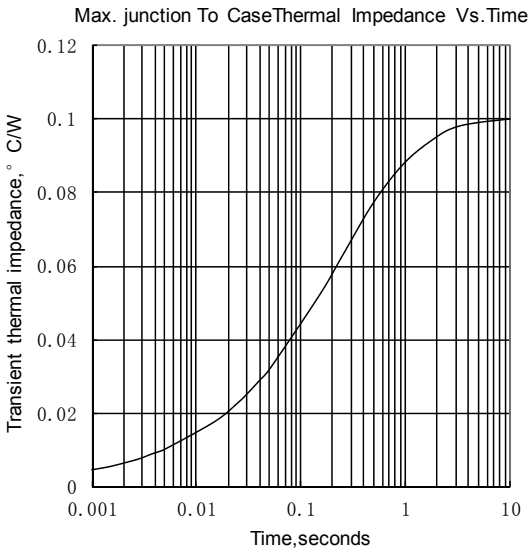


Fig.2

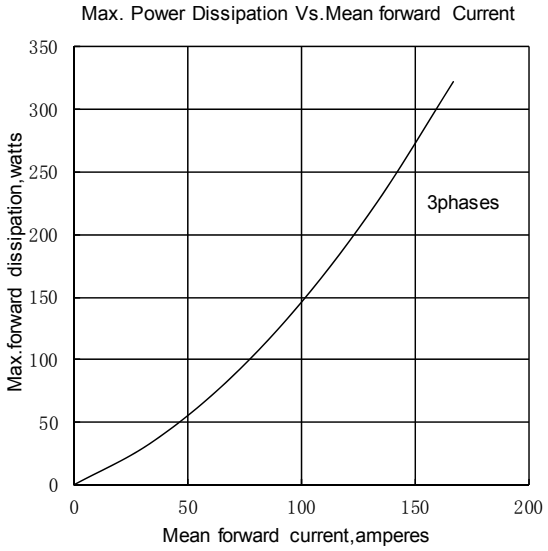


Fig.3

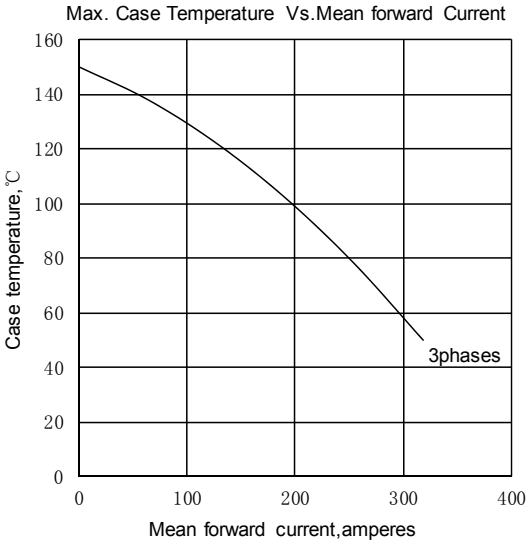


Fig.4

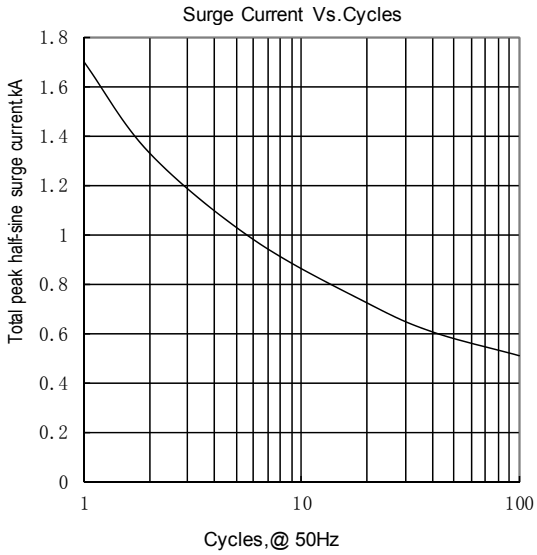


Fig.5

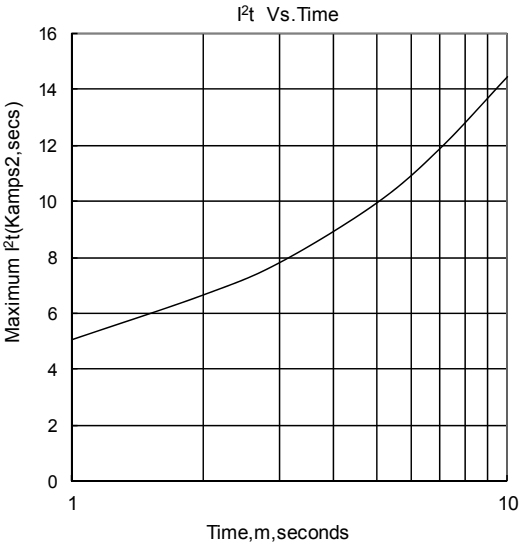
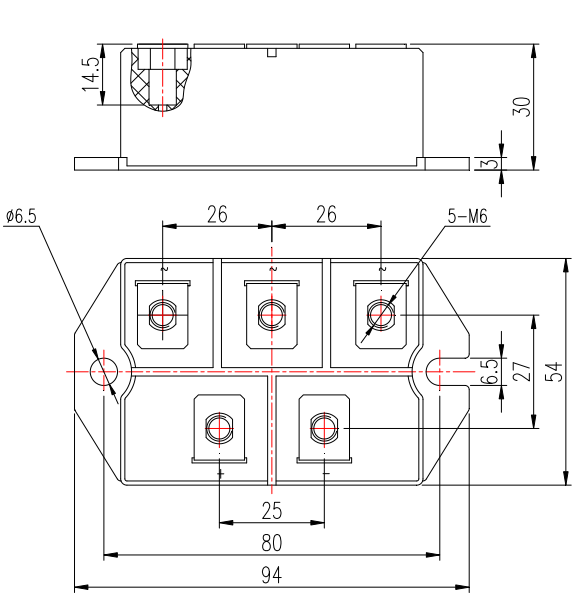
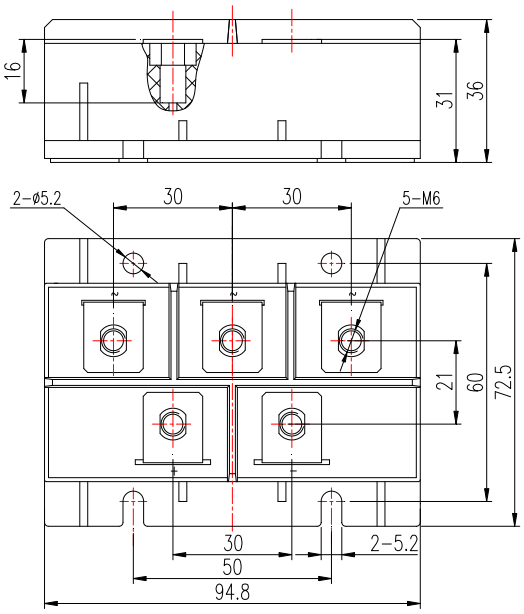


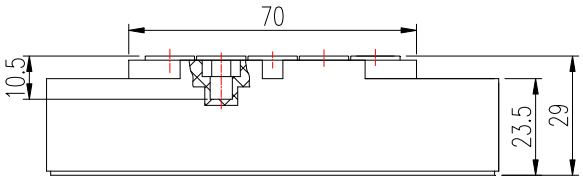
Fig.6

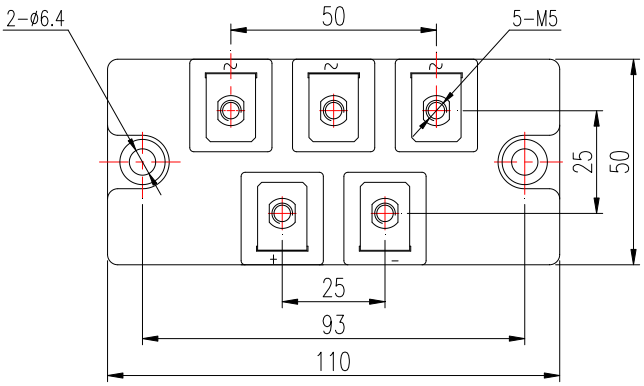
Outline:





234H5 411H5





221H5