TECHSEM

MDS75

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

I_O	75 A
V_{RRM}	600~1800 V
I_{FSM}	1.00 A×10^3
I^2t	5.1 A^2 S*10^3

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			75	A
V_{RRM}	Repetitive peak reverse voltage	V_{RRM} tp=10ms V_{RSM}= V_{RRM}+100V	150	600		1800	V
I_{RRM}	Repetitive peak current	at V_{RRM}	150			4	mA
I_{FSM}	Surge forward current	10ms half sine wave V_R=0.6V_{RRM}	150			1.0	KA
I^2t	I^2T for fusing coordination					5.1	A^2s*10^3
V_{FO}	Threshold voltage		150			0.8	V
r_F	Forward slop resistance					7.0	mΩ
V_{FM}	Peak forward voltage	I_{FM}=75A	25			1.25	V
$R_{th(j-c)}$	Thermal resistance Junction to case	Single side cooled				0.24	°C /W
$R_{th(c-h)}$	Thermal resistance case to heatsink	Single side cooled				0.15	°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
T_{stg}	Stored temperature			-40		125	°C
W_t	Weight				200		g
Outline	220H5/218H5/219H5/232H5						

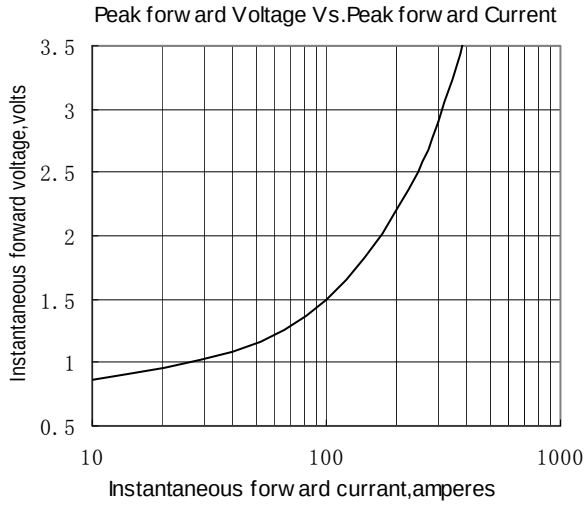


Fig.1

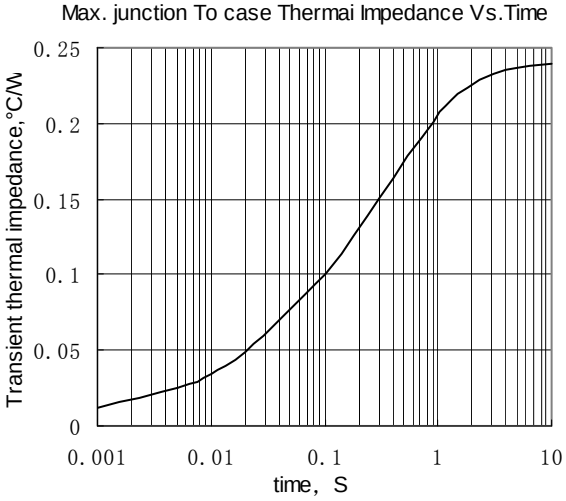


Fig.2

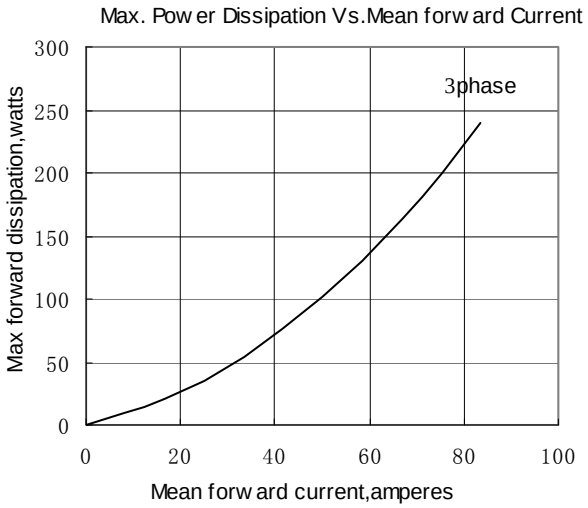


Fig.3

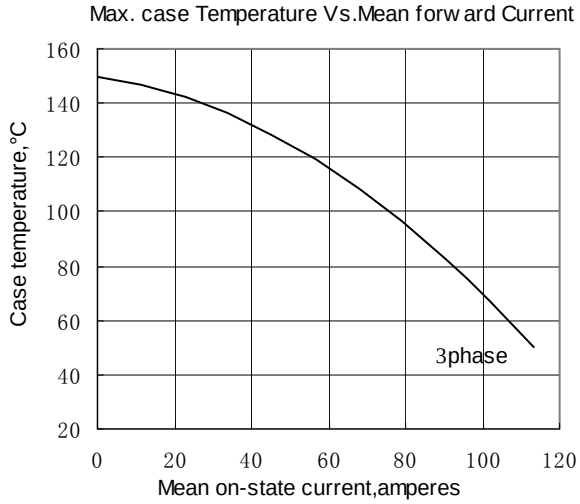


Fig.4

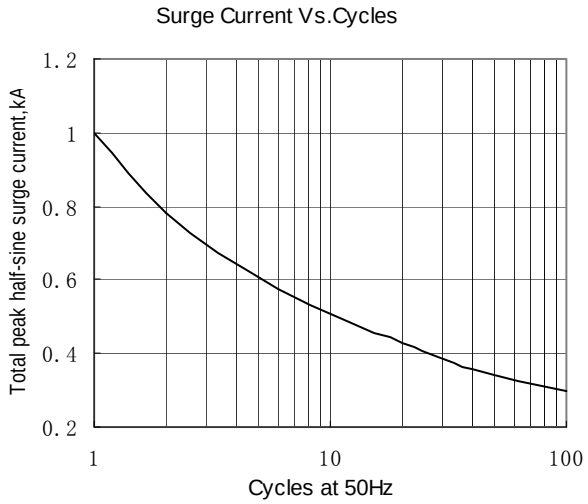


Fig.5

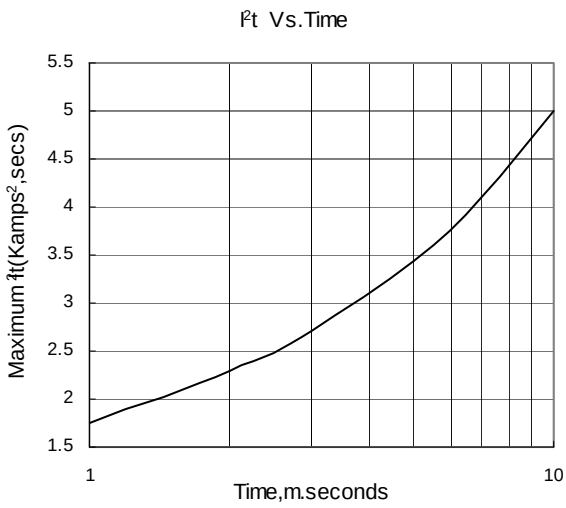
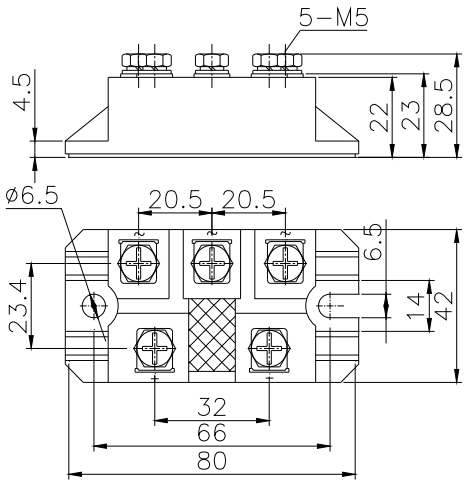


Fig.6

Outline:



220H5