TECHSEM

MDQ50
Single Phases Rectification Bridge Modules

Features:

- Isolated mounting base 2500V
- Solder joint technology
- Space and weight savings

Typical Applications

- DC Power supplies for equipments.
- DC supply for PWM inverter
- Inverter Welder

I_O	**50A**
V_{RRM}	**600~1800V**
I_{FSM}	**$1.0A \times 10^3$**
I^2t	**$5.0A^2 S*10^3$**

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	T_j(°C)	VALUE			UNIT
				Min	Type	Max	
I_O	DC output current	Single-phase full wave rectifying circuit, T_C=100℃	150			50	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					5.0	A^2s*10^3
V_{FO}	Threshold voltage		150			0.8	V
r_F	Forward slop resistance					9.0	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				190		g
Outline	220H5/218H5/219H5/232H5						

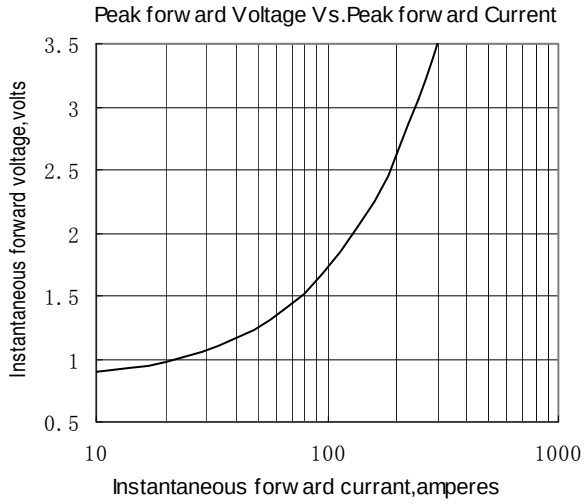


Fig.1

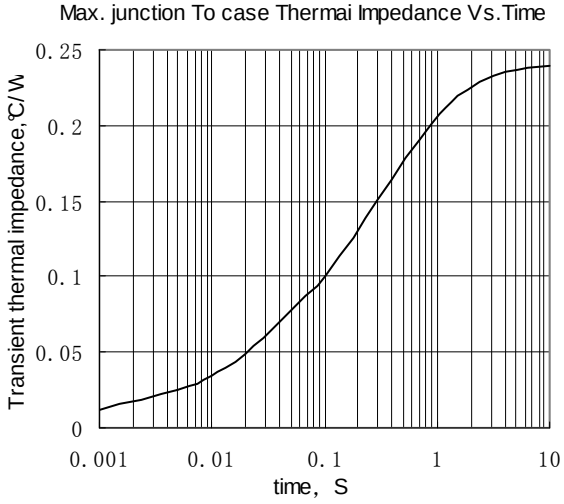


Fig.2

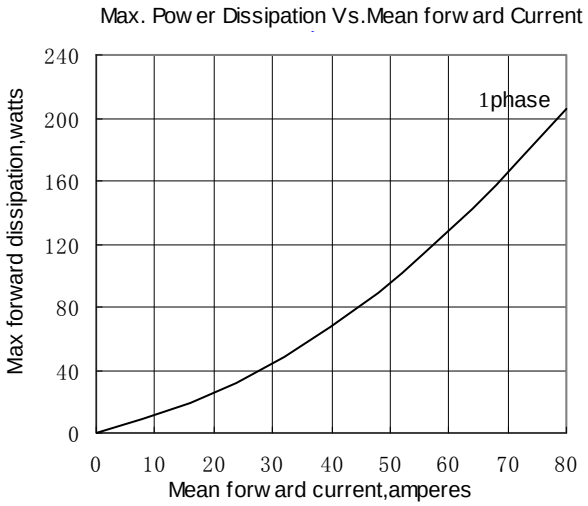


Fig.3

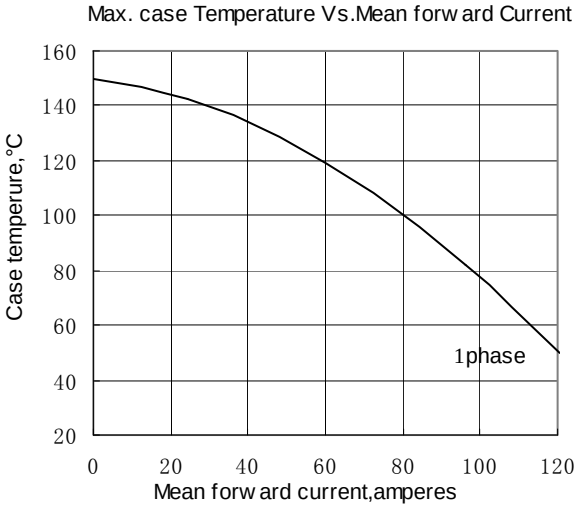


Fig.4

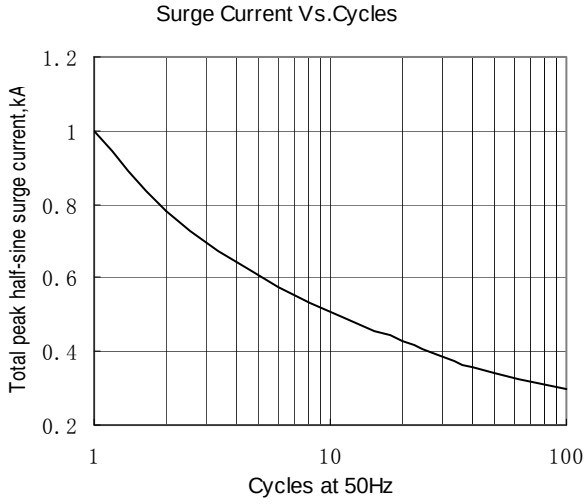


Fig.5

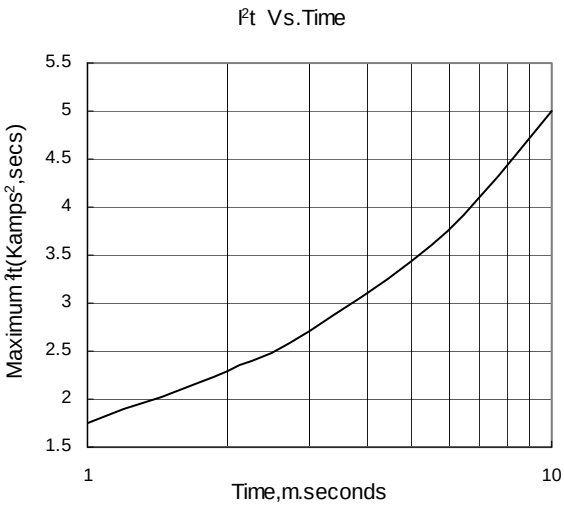
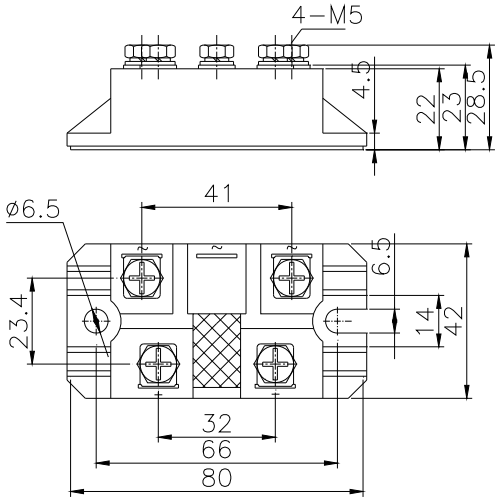


Fig.6

Outline:



220H5