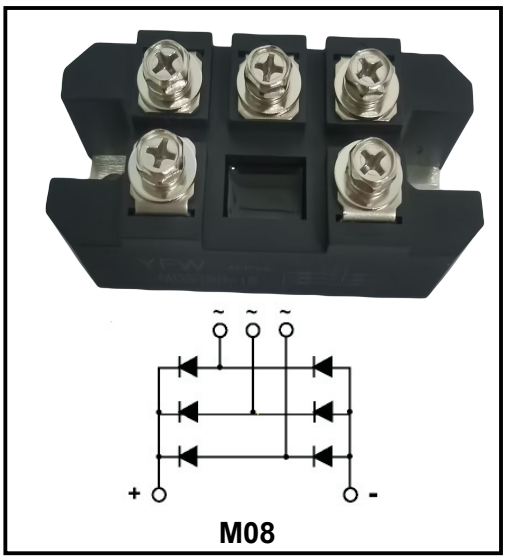
Three Phases Rectification Bridge Modules

Reverse Voltage - 1600V

Forward Current - 0.75KA



M08

Features

- Solder joint technology with
- Increased power cycling capability
- Space and weight saving

Typical Applications

- Inverter
- Inductive heating
- Choppe

CHARACTERISTIC	TEST CONDTIONS	SYMBOL	T_j (°C)	value			UNIT
				Min	Type	Max	
DC output current	Three-phase full wave rectifying circuit, Tc=100°C	**Io**	150			50	A
Repetitive peak reverse voltage	V_{RRM} tp=10ms V_{RSM}= V_{DRM} &V_{DRM}+200V	**V_{RRM}**	150	600		1800	V
Repetitive peak current	at V_{RRM}	**I_{RRM}**	150			8	mA
Surge foward current	10ms half sinewave V_R=0. 6V_{RRM}	**I_{FSM}**	150			0. 75	KA
I^2T for fusing coordination		**1^2t**				2.8	A^2s*10^3
Threshold voltage		**V_{FO}**	150			0. 80	V
Forward slop resistance		**rF**				9.0	mΩ
Peak foward voltage	I_{FM}=50A	**V_{FM}**	25			1. 1	V
Thermal resistance Junction to heatsink	Single side cooled	**$R_{th\ (j-C)}$**				0. 55	°C /W
Isolation voltage	50Hz, RM. S, t=1minI iso:1mA(max)	**V_{iso}**		2500			V
Terminal connection torque (M5)		**F_m**			2.0		N.m
Mounting torque (M6)					3.0		N.m
Stored temperature		**Tstg**		-40		125	°C
Weight		**W_t**			154		g

Rating and Characteristic Curves

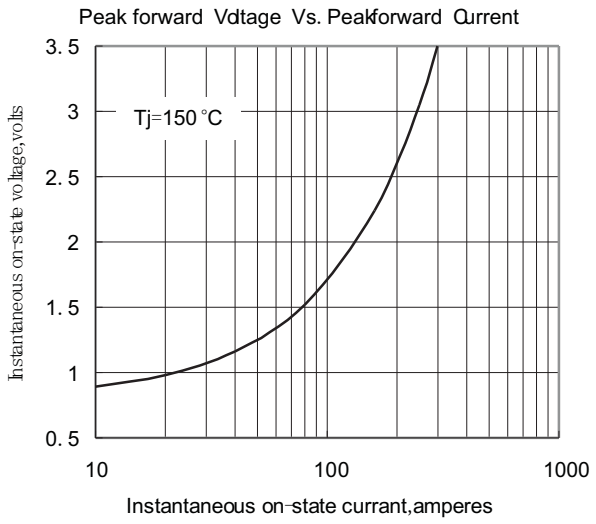


Fig. 1

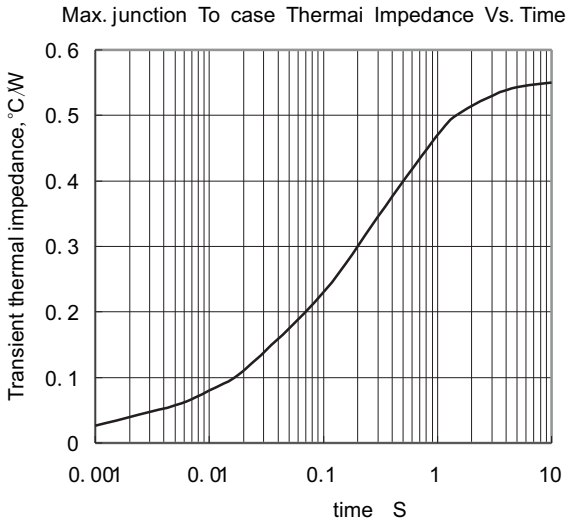


Fig. 2

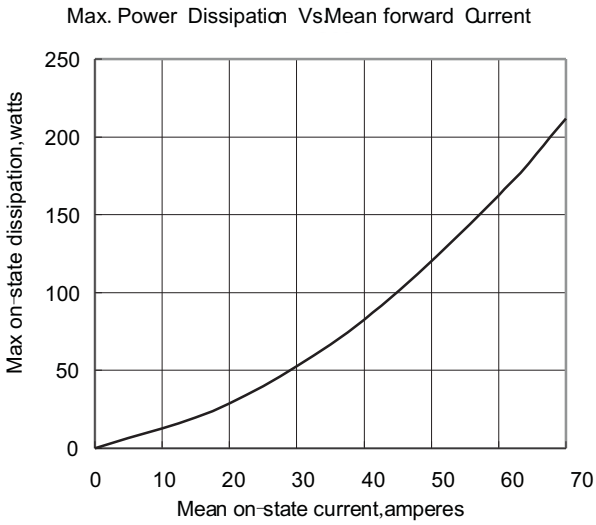


Fig. 3

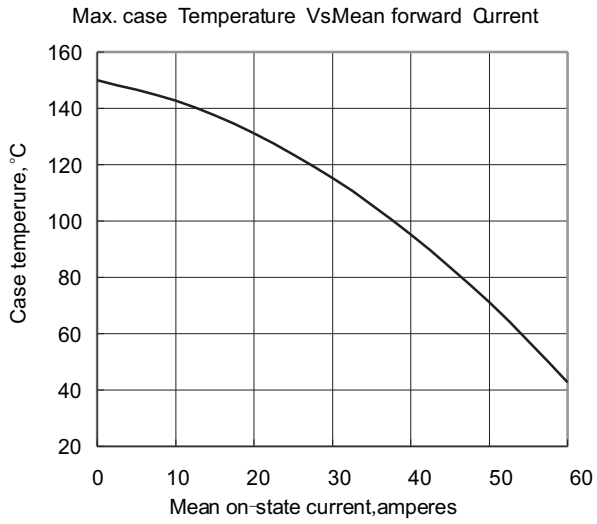


Fig. 4

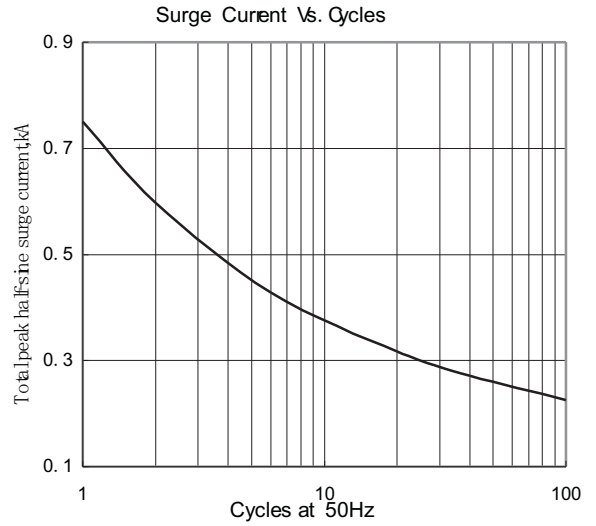


Fig. 5

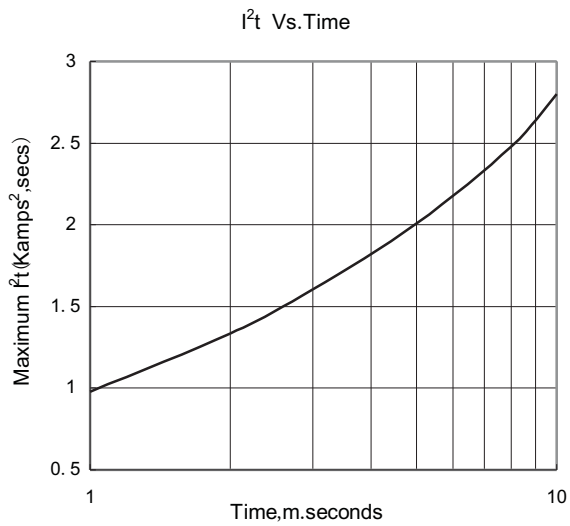
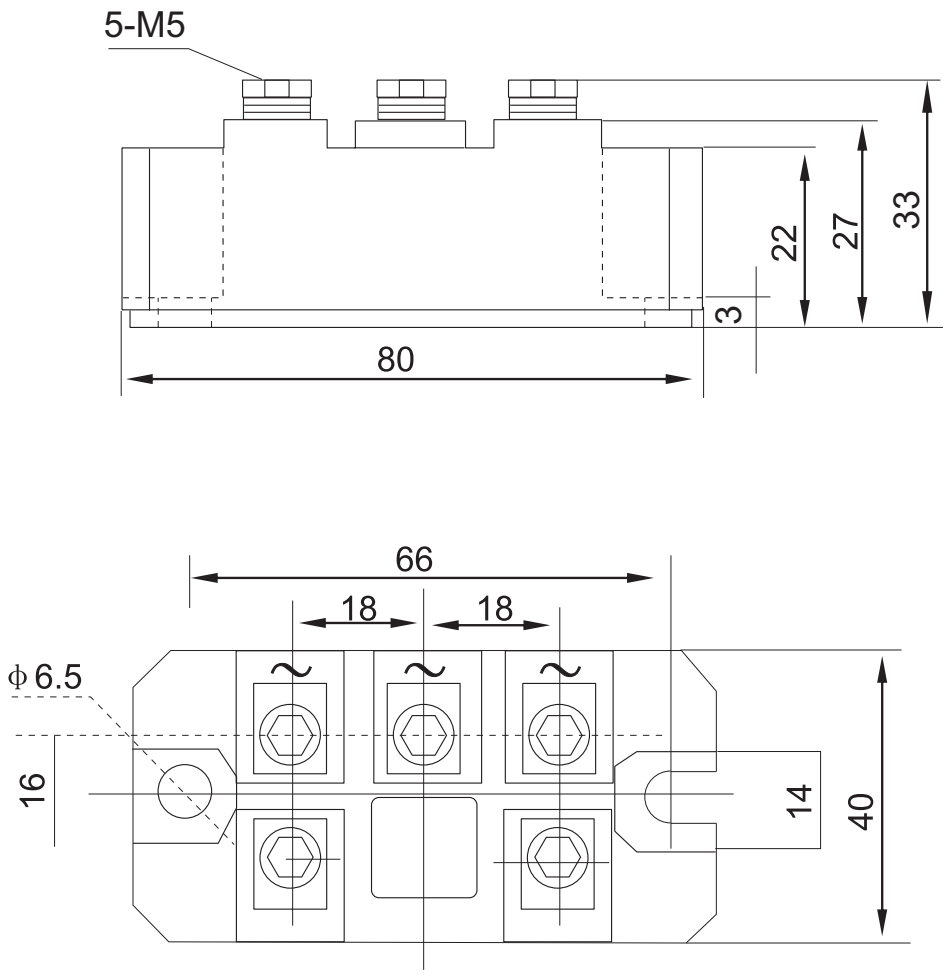


Fig. 6

Package Outline Dimensions in Millimeters



Product Specification Classification

Part Number	Package	Marking	Pack
MDS50-16	M08	YFW MDS50-16 XXXXX	10pcs/box 100pcs/carton