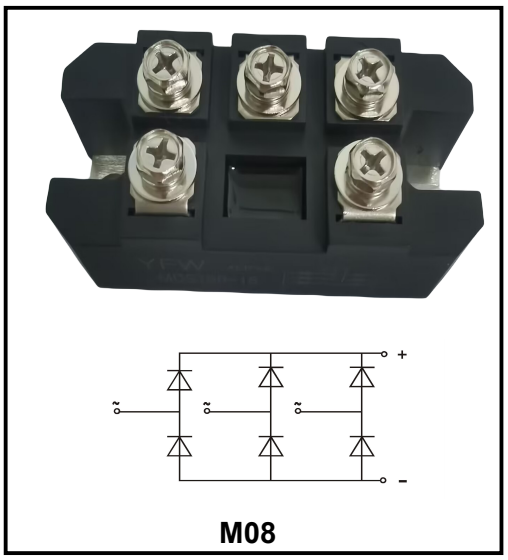
Three Phases Rectification Bridge Modules

Reverse Voltage - 1600V

Forward Current - 1.5KA



M08

Features

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

Typical Applications

- Inverter
- Inductive heating
- Choppe

Parameter		Symbols	MDS100-16				Units
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	1600V				V
Maximum RMS voltage		V_{RMS}	1700V				V
Characteristics	**TEST CONDITIONS**	**Symbol**	**T_j(℃)**	**VALUE**			**UNIT**
				Min	**Type**	**Max**	
DC output current	Three-phase full wave rectifying circuit, Tc=100℃	Io	150			100	A
Repetitive peak current	at V_{RRM}	I_{RRM}	150			10	mA
Surge forward current	10ms half sine wave V_R=0.6V_{RRM}	I_{FSM}	150			1.5	KA
I^2t for fusing coordination		I^2t	150			11.4	A^2s*10^3
Threshold voltage		V_{FO}	150			0.8	V
Fowvard slop resistance		r_F	150			4.5	mΩ
Peak forward voltage	I_{FM}=100A	V_{FM}	25			1.1	V
Thermal resistance Junction to heatsink	Single side cooled	Rth(j-c)				0.240	°C /W
Isolation voltage	50Hz,R.M.S,t=1min,I_{iso}:1mA(max)	Viso		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		Wt			154		g
Outline							

Rating and Characteristic Curves

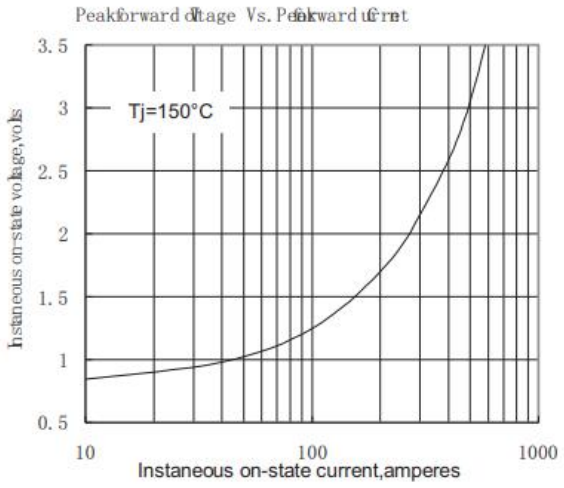


Fig.1

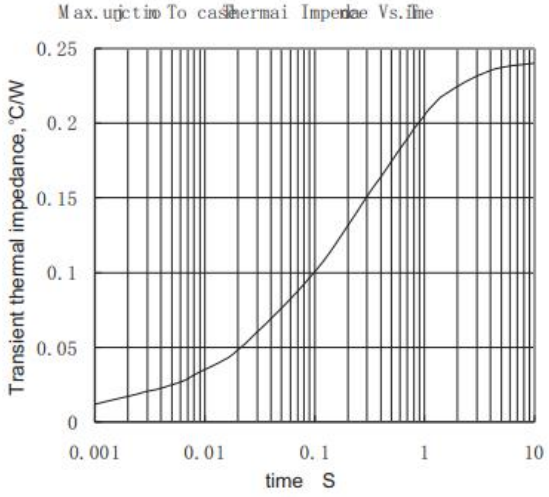
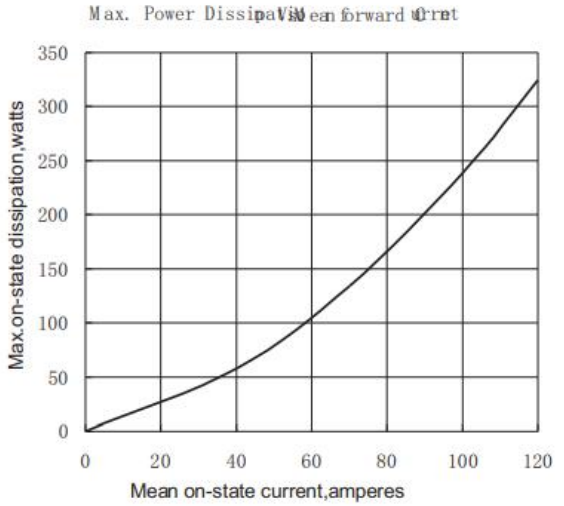
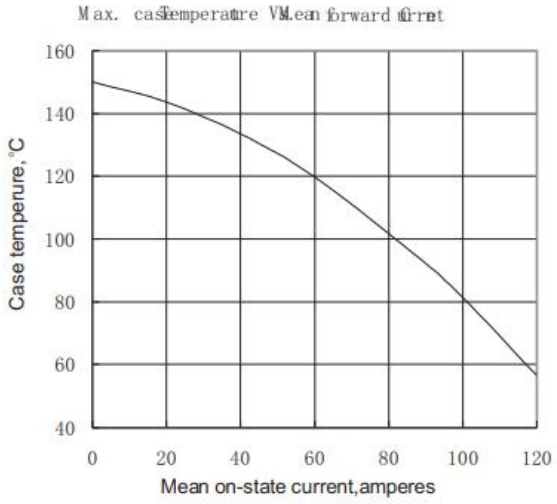
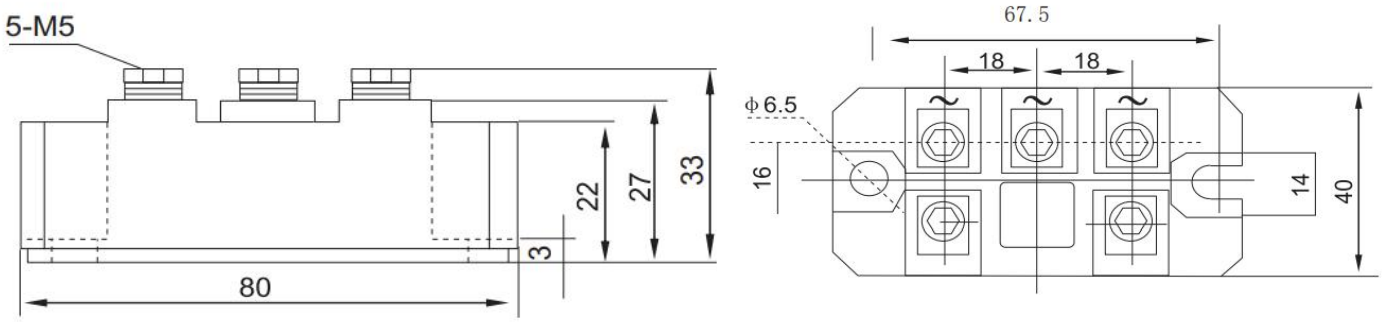


Fig.2





Outline Dimensions M08



Product Specification Classification

Part Number	Package	Marking	Pack
MDS100-16	M08	YFW MDS100-16 XXXXX	10pcs/box 100pcs/carton