

Three Phases Rectification Bridge Modules

Reverse Voltage - 1600V

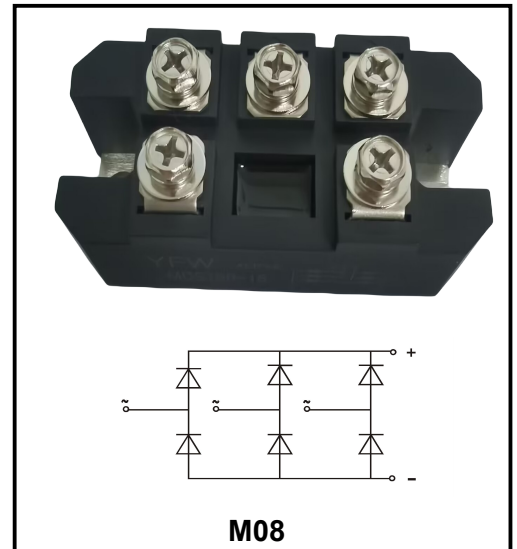
Forward Current - 1.5KA

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	$T_j(^{\circ}C)$	VALUE			UNIT
				Min	Type	Max	
DC output current	Three-phase full wave rectifying circuit, $T_c=100^{\circ}C$	I_o	150			100	A
Repetitive peak current	at V_{RRM}	I_{RRM}	150			10	mA
Surge forward current	10ms half sine wave	I_{FSM}	150			1.5	KA
I^2t for fusing coordination	$V_R=0.6V_{RRM}$	I^2t	150			11.4	$A^2s \cdot 10^3$
Threshold voltage		V_{FO}	150			0.8	V
Forward slope resistance		r_F	150			4.5	$m\Omega$
Peak forward voltage	$I_{FM}=100A$	V_{FM}	25			1.1	V
Thermal resistance Junction to heatsink	Single side cooled	$R_{th(j-c)}$				0.240	$^{\circ}C/W$
Isolation voltage	50Hz, R.M.S, $t=1min, I_{iso}: 1mA(max)$	V_{iso}		2500			V
Terminal connection torque(M5)		F_M			2.0		N.m
Mounting torque(M6)					3.0		N.m
Stored temperature		T_{stg}		-40		125	$^{\circ}C$
Weight		W_t			154		g
Outline							

Rating and Characteristic Curves

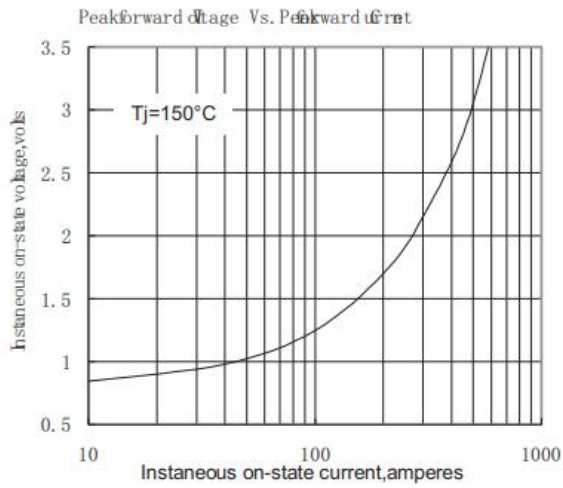


Fig.1

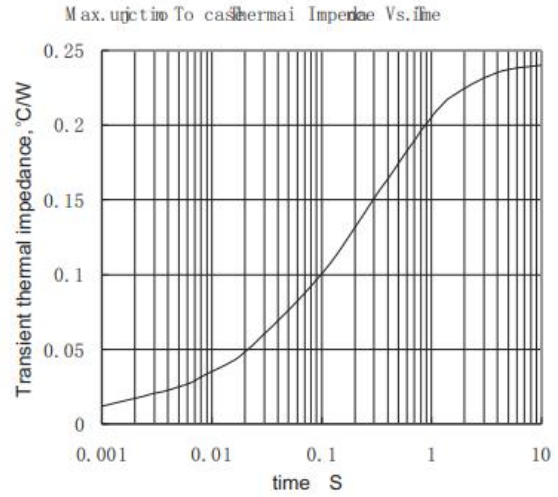
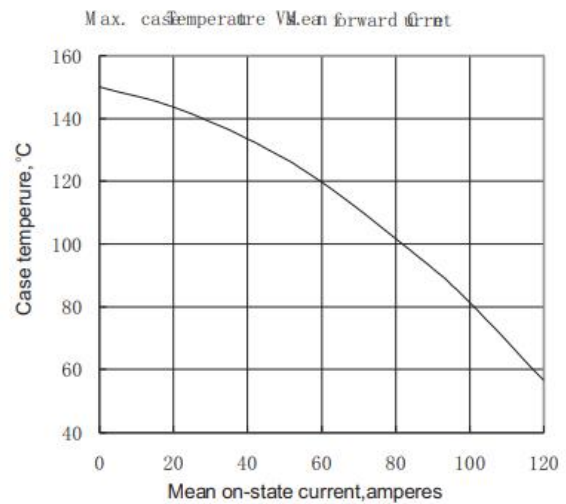
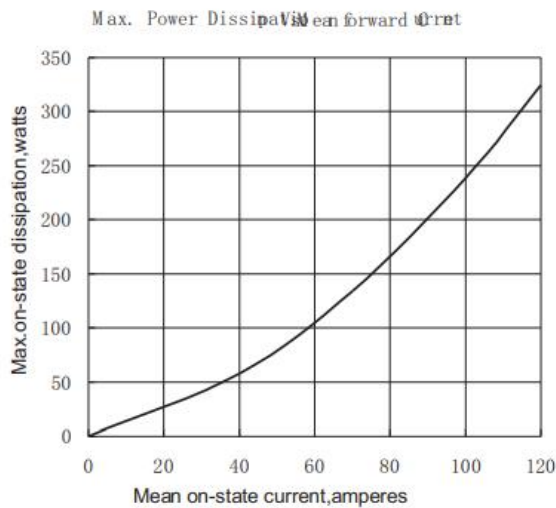
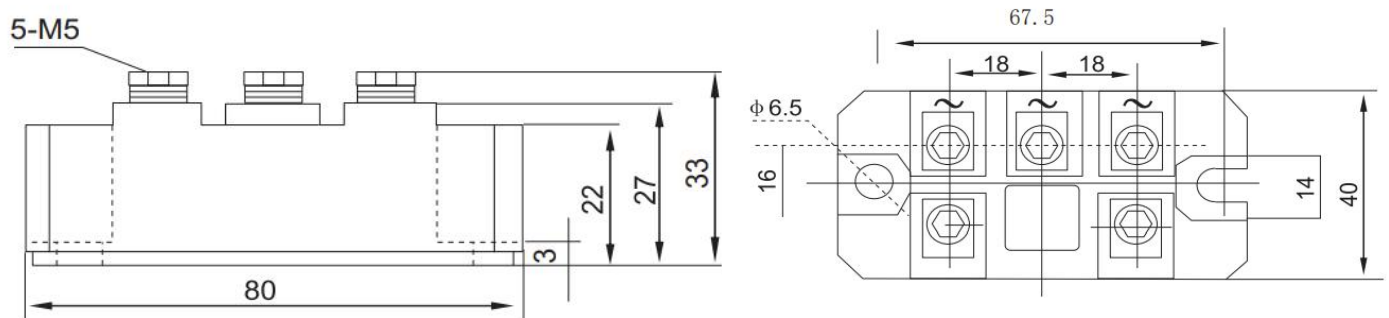


Fig.2



Outline Dimensions M08



Product Specification Classification

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

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