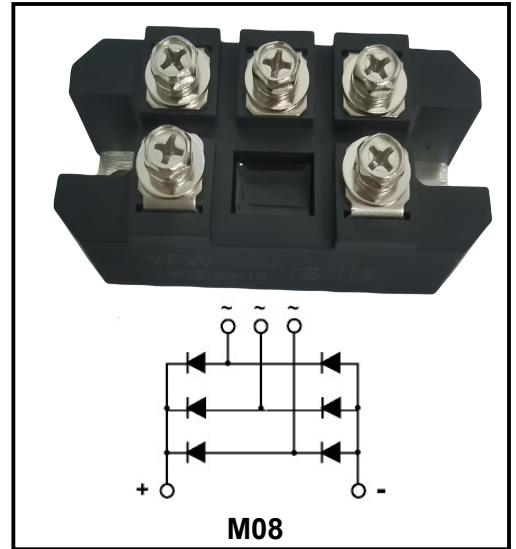


Three Phases Rectification Bridge Modules
Reverse Voltage - 1600V
Forward Current - 0.75KA
Features

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

Typical Applications

- ◆ Inverter
- ◆ Inductive heating
- ◆ Choppe



CHARACTERISTIC	TEST CONDITONS	SYMBOL	T _j (°C)	value			UNIT
				Min	Type	Max	
DC output current	Three-phase full wave rectifying circuit, T _c =100°C	I_o	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 ² T for fusing coordination		I²t				2.8	A ² s*10 ³
Threshold voltage		V_{FO}	150			0. 80	V
Forward slop resistance		r_F				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=1min 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	°C
Weight		W_t			154		g

Rating and Characteristic Curves

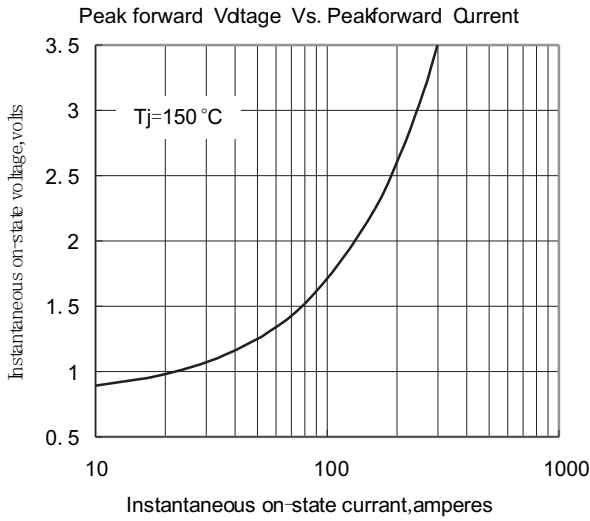


Fig. 1

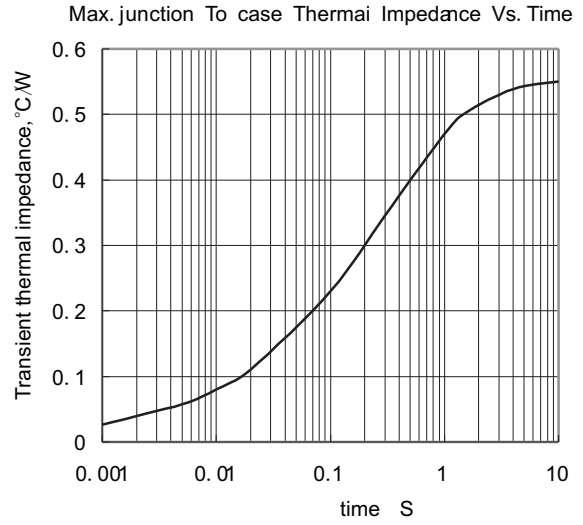


Fig. 2

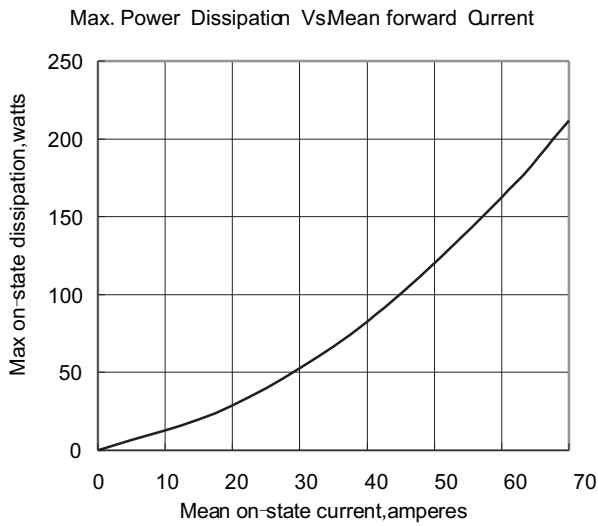


Fig. 3

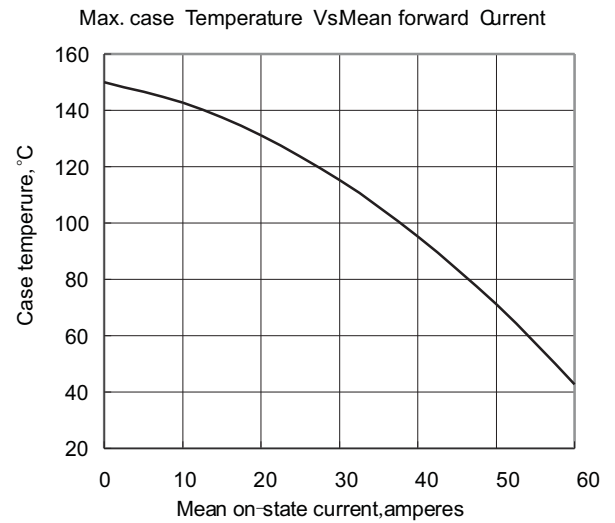


Fig. 4

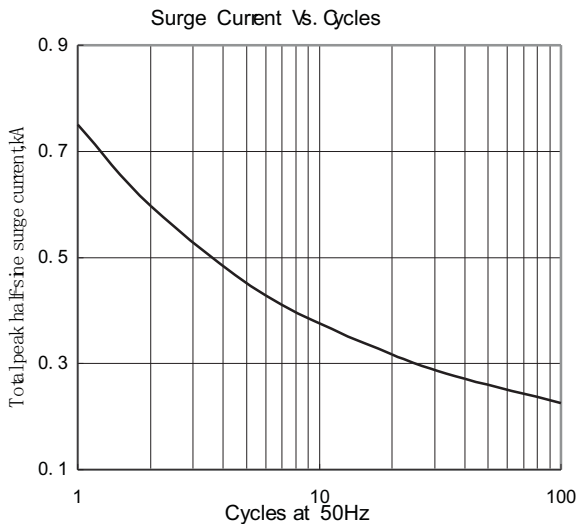


Fig. 5

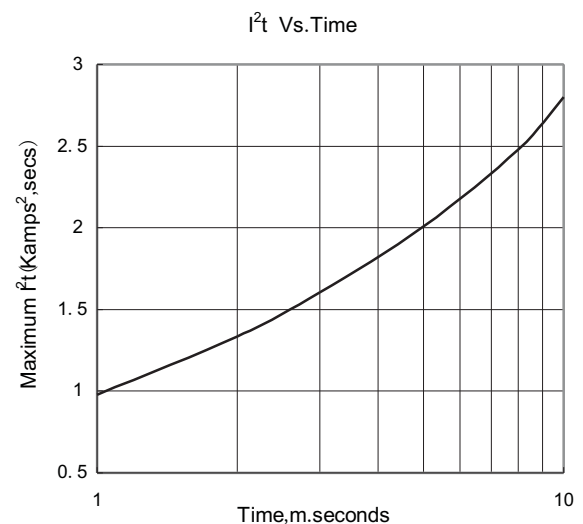


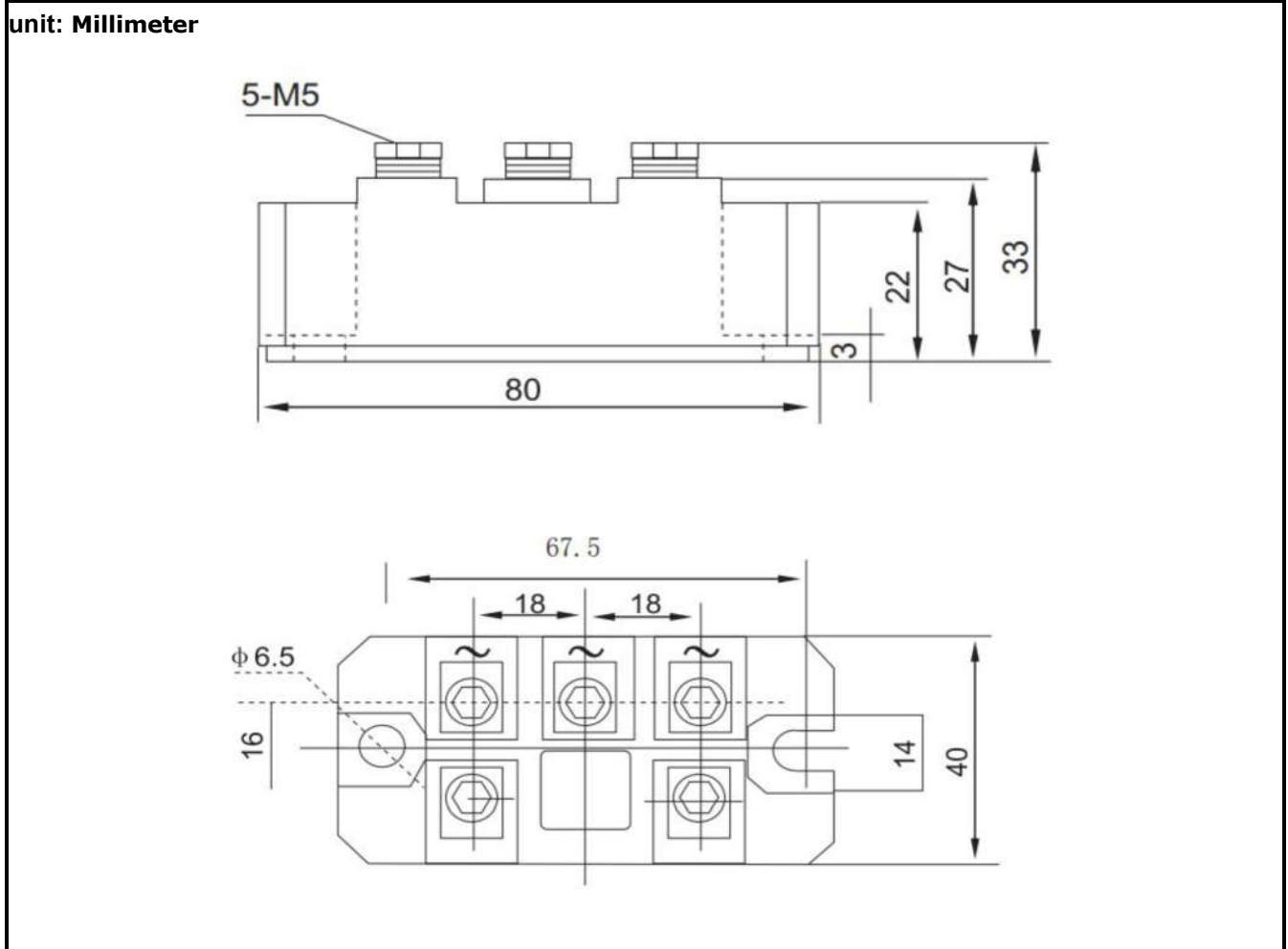
Fig. 6

Ordering information

Model name	Package	Unit Weight	Base Quantity
MDS50-16	M08	5.29oz(150g)	10pcs/ Box

Package Dimensions

M08



Disclaimer

The information presented in this document is for reference only. Guangdong Youfeng Microelectronics Co.,Ltd. reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function or design or otherwise. The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of which would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), YFW or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale. This publication supersedes & replaces all information previously supplied. For additional information, please visit our website <https://www.yfwdiode.com>, or consult YFW sales office for further assistance.