

Rectifier module

V_{RRM} - 800 to 1600V

I_(AV) - 75A

FEATURES

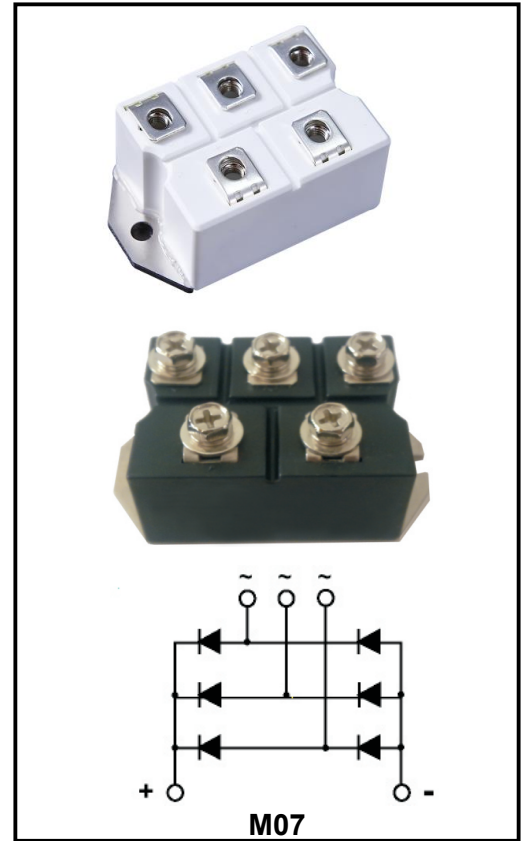
- ◆ Low reverse leakage current
- ◆ High surge current capability
- ◆ Compliant to RoHS directive 2011/65/EU

APPLICATIONS

- ◆ Industrial power supply
- ◆ DC supply for PWM inverter
- ◆ Supplies for DC power equipment

MECHANICAL DATA

- ◆ Case: M07
- ◆ Polarity: Polarity symbols being marked on body
- ◆ Mounting torque: 15.0kgf.cm max
- ◆ Weight : About 154 grams



Maximum Ratings @ Ta = 25°C unless otherwise noted

PARAMETER		SYMBOL	MDS75A-08	MDS75A-10	MDS75A-12	MDS75A-14	MDS75A-16	UNIT
Maximum recurrent peak reverse voltage		V_{RRM}	800	1000	1200	1400	1600	V
Average rectified output current	with heatsink, T _C =100°C	I_(AV)	75					A
Peak surge forward current, 8.3ms single half Sine-wave superimposed on rated load		I_{FSM}	750					A
Rating for fusing, 1ms<t<8.3ms T _J =25°C, Rating of per diode		I²t	8250					A²s
Dielectric strength, terminals to case AC 1 minute		V_{dis}	2.5					KV
Peak Forward Voltage I _F = 75A		V_F	1.2					V
Peak Reverse Current V _R =V _{RRM} , Pulse measurement Rating of per diode	T _J =25°C	I_R	0.5					mA
	T _J =125°C		10					
Junction to case thermal resistance, with heatsink		R_{θJC}	0.8					°C/W
Junction temperature		T_J	-40~+150					°C
Storage temperature		T_{STG}	-40~+125					°C

Characteristic Curve

FIG1. Derating Curve For Output Rectified Current

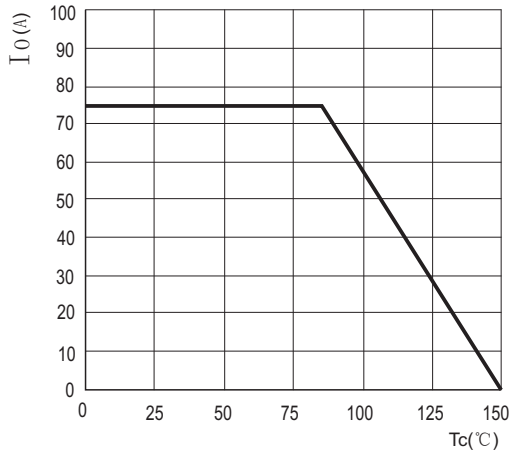


FIG2. Maximum Non-Repetitive Peak Forward Surge Current Per Bridge Element

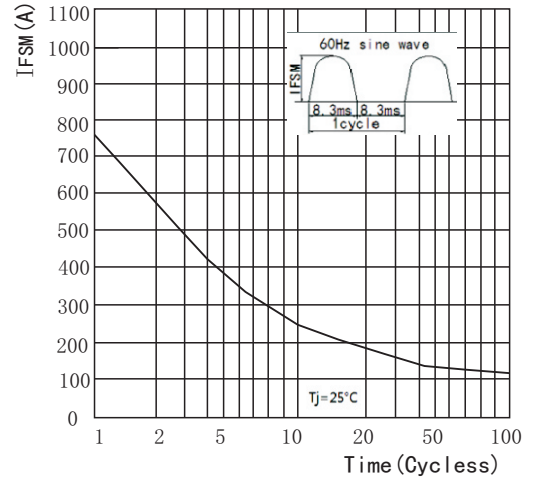


FIG3. Typical Reverse Characteristics Per Bridge Element

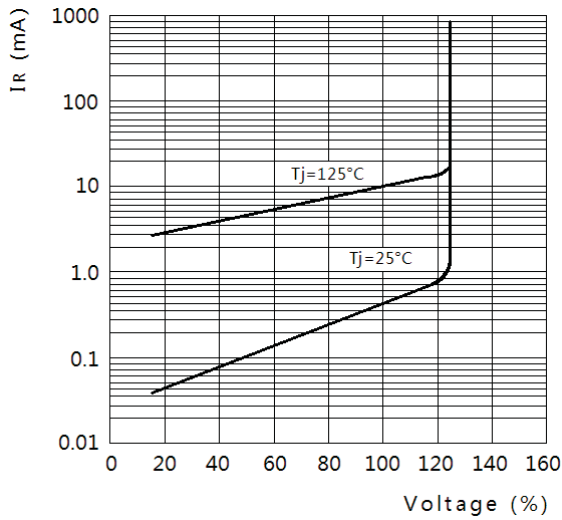
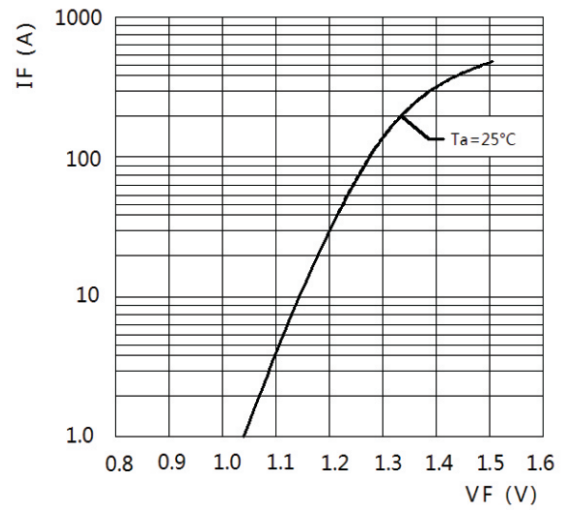
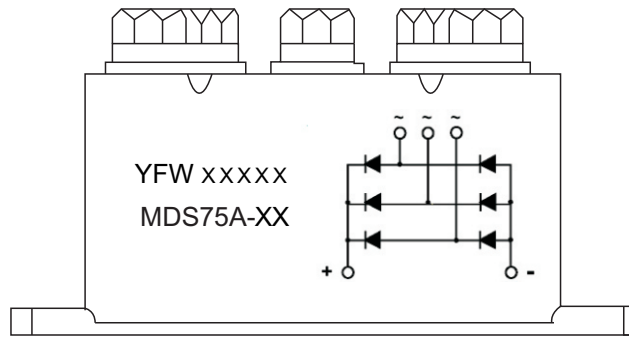


FIG4. Typical Forward Characteristics Per Bridge Element



Marking Diagram

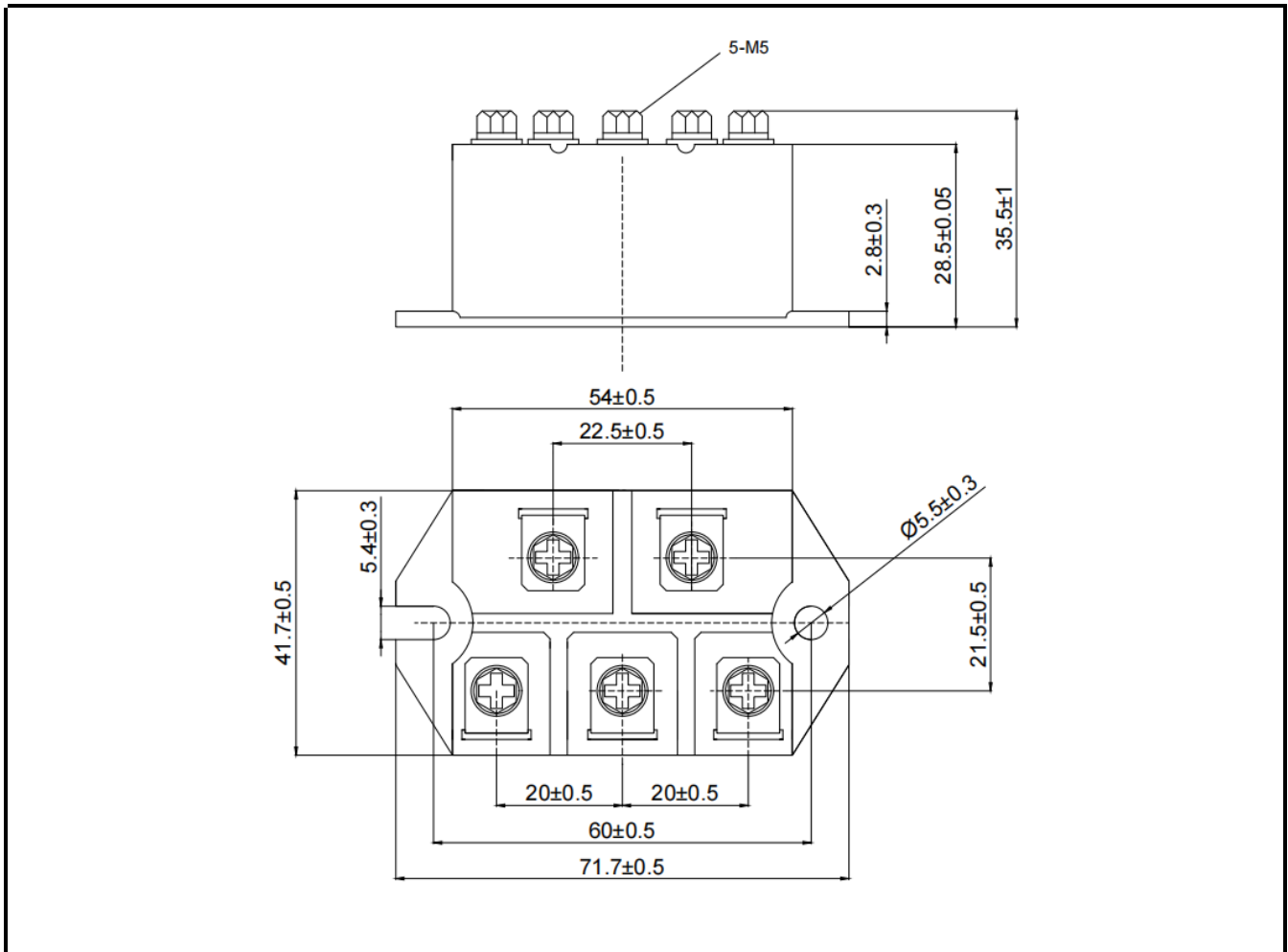


Ordering information

Model name	Package	Unit Weight	Base Quantity
MDS75A-XX	M07	About 154g	10pcs/ Box

Package Dimensions

M07



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 with 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.