

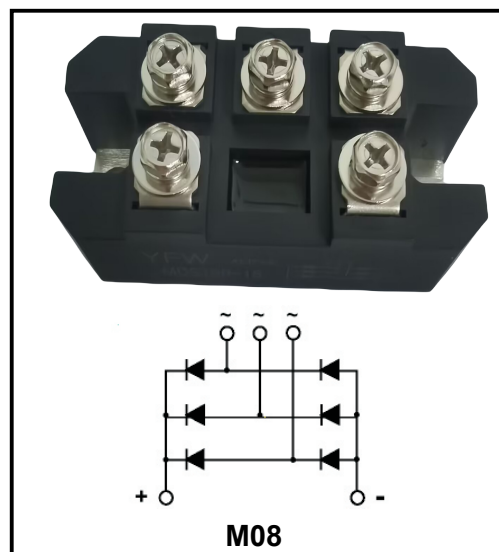
Three Phase Silicon Bridge Rectifier

V_{RRM} - 800 to 1600 V

$I_{F(AV)}$ - 75 A

FEATURES

- ◆ High Surge Capability
- ◆ Types from 800 V to 1600 V VRRM
- ◆ Not ESD Sensitive



Maximum ratings, at $T_j = 25^\circ\text{C}$, unless otherwise specified

Parameter	Symbols	MDS75-08	MDS75-12	MDS75-16	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	800	1200	1600	V
Maximum RMS voltage	V_{RMS}	560	840	1120	V
Maximum DC Blocking Voltage	V_{DC}	800	1200	1600	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	75			A
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	700			A
Forward Voltage per element @ $I_F = 75\text{A DC}$	V_F	1.3			V
Maximum DC Reverse Current @ $T_J = 25^\circ\text{C}$ at Rated DC Blocking Voltage @ $T_J = 125^\circ\text{C}$	I_R	5 450			μA
Typical Junction Capacitance (Note1)	C_j	66			pF
Typical Thermal Resistance (Note2)	$R_{\theta JC}$	0.25			$^\circ\text{C/W}$
Operating and Storage Temperature Range	T_j, T_{stg}	$-55 \sim +150$			$^\circ\text{C}$

RATINGS AND CHARACTERISTIC CURVES

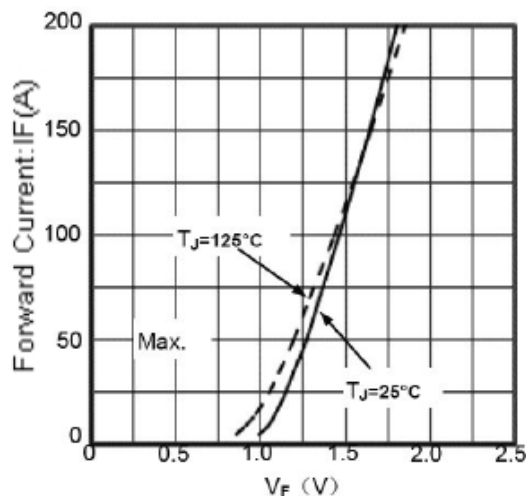


Figure1. Forward Voltage Drop vs Output Current

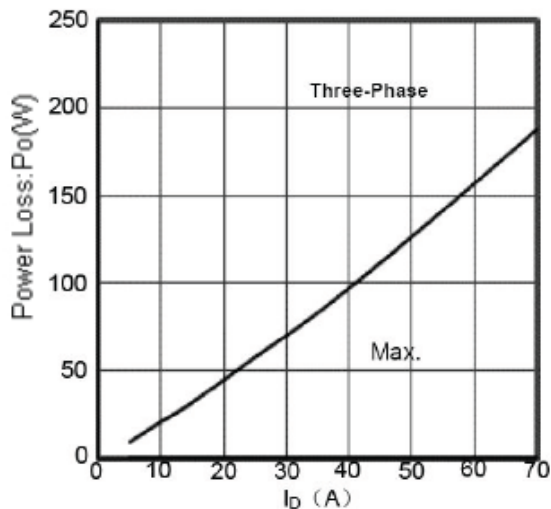


Figure2. Power dissipation vs. Output Current

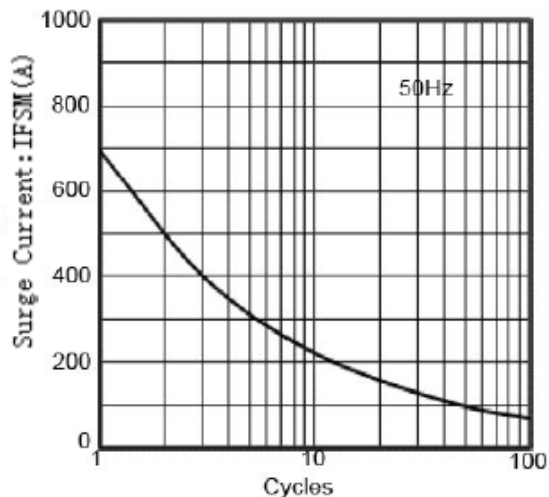


Figure3. Max Non-Repetitive Forward Surge Current

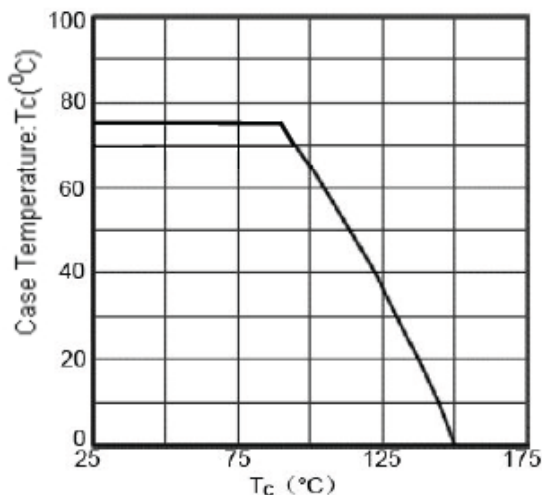


Figure4. Output Current vs. Case temperature

Transient Thermal Impedance(max)

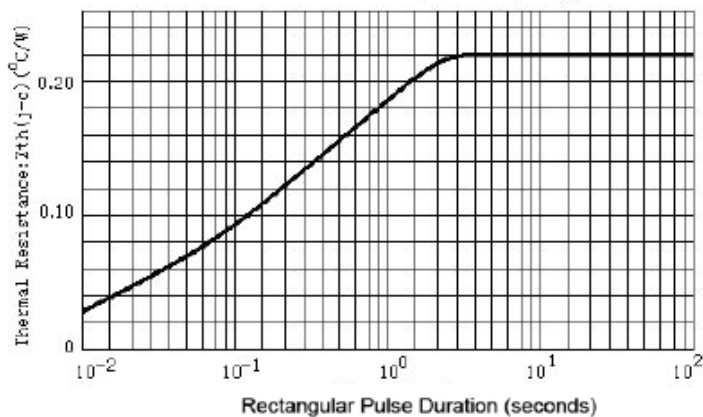
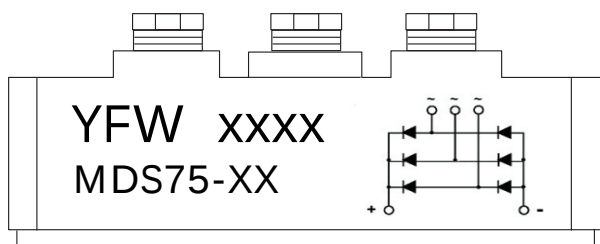


Figure5. Transient Thermal Impedance

Marking Diagram



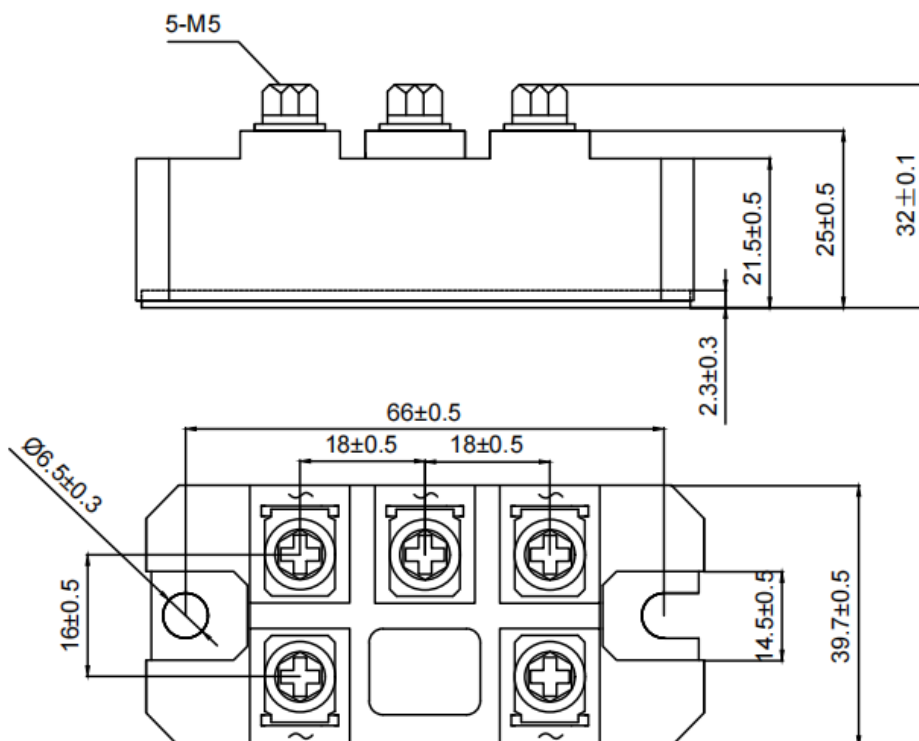
Ordering information

Model name	Package	Unit Weight	Base Quantity
MDS75-XX	M08	5.29oz(150g)	10pcs/ Box

Package Dimensions

M08

unit: Millimeter



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