

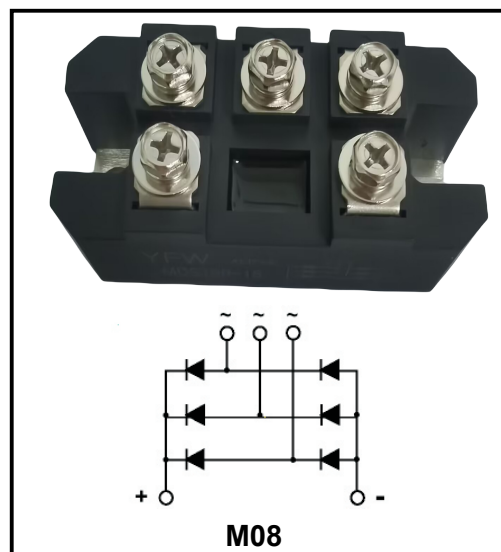
Three Phase Silicon Bridge Rectifier

VRRM = 800 V - 1600 V

IF(AV) = 75 A

FEATURES

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



Maximum ratings, at Tj = 25 °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}	960	1320	1760	V
Maximum DC Blocking Voltage	V_{DC}				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 @ $I_F=5A$ DC	V_F	1.3			V
Maximum DC Reverse Current @ $T_J=25^{\circ}C$ at Rated DC Blocking Voltage @ $T_J=125^{\circ}C$	I_R	5 450			μA
Typical Junction Capacitance ^(Note1)	C_j	66			pF
Typical Thermal Resistance ^(Note2)	$R_{\theta JC}$	0.25			$^{\circ}C/W$
Operating and Storage Temperature Range	T_J, T_{stg}	-55 ~ +150			$^{\circ}C$

RATINGS AND CHARACTERISTIC CURVES

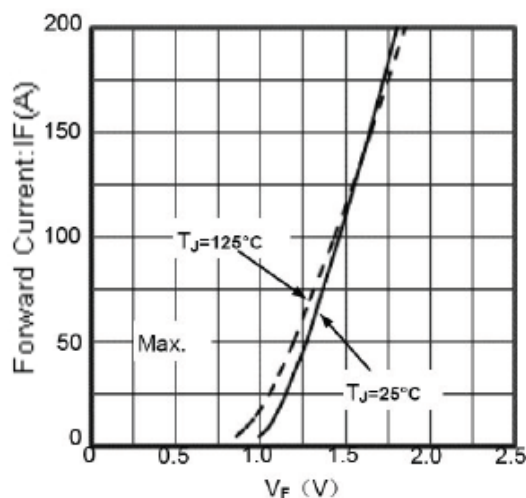


Figure1. Forward Voltage Drop vs Output Current

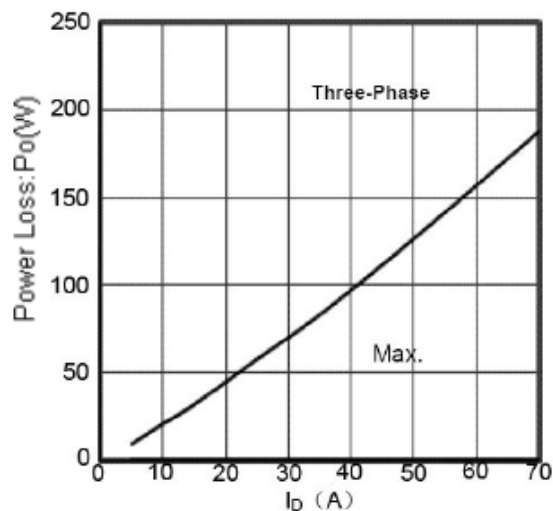


Figure2. Power dissipation vs. Output Current

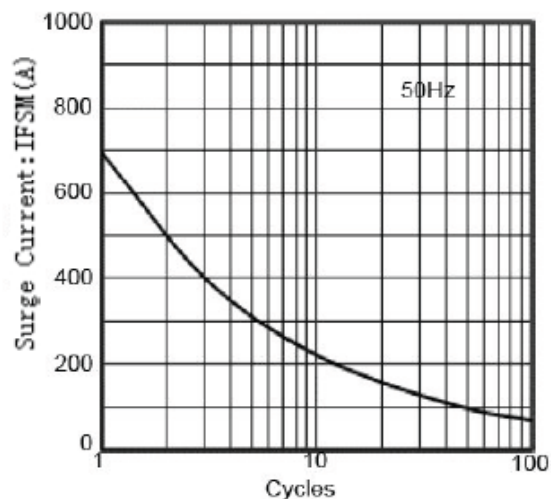


Figure3. Max Non-Repetitive Forward Surge Current

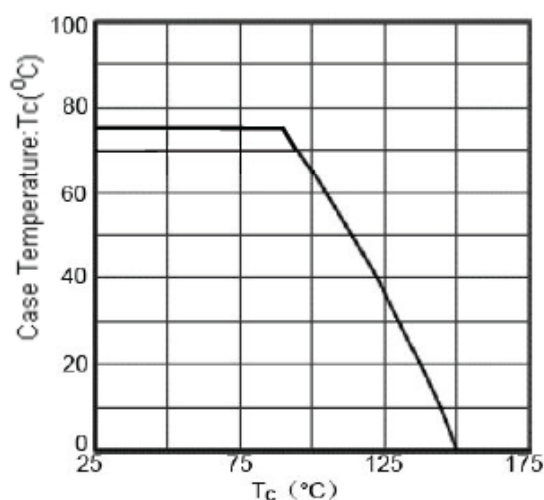


Figure4. Output Current vs. Case temperature

Transient Thermal Impedance(max)

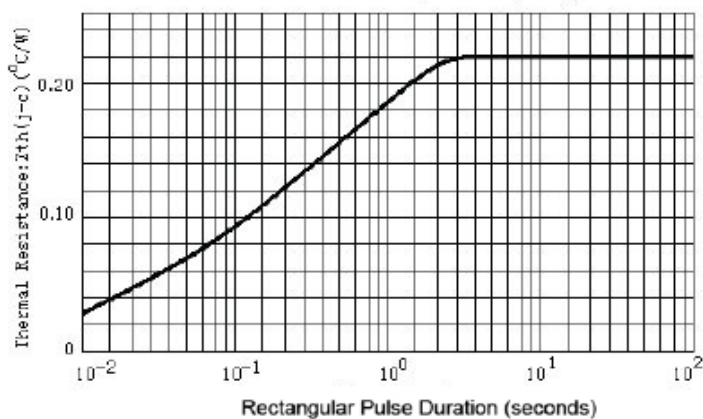


Figure5. Transient Thermal Impedance

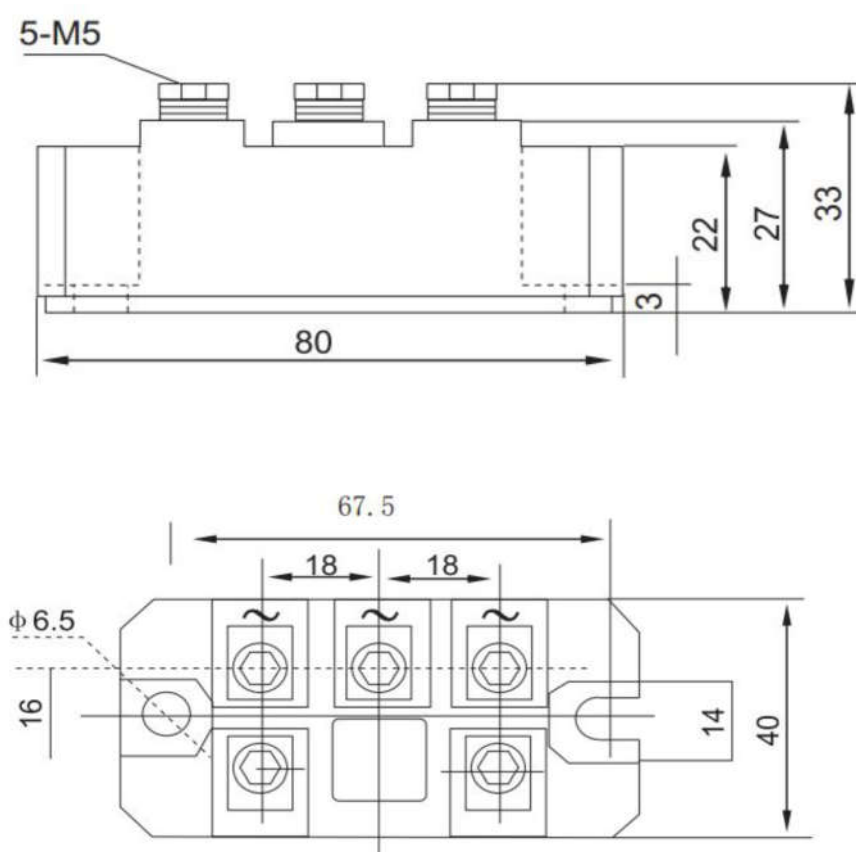
Ordering information

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

Package Dimensions

M08

unit: Millimeter



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