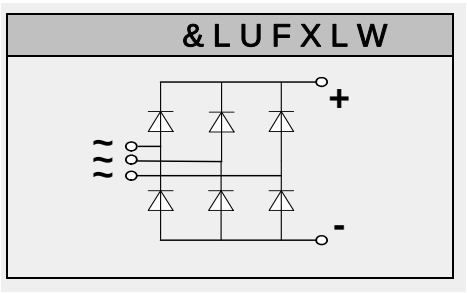
MD160S-M5

Glass Passivated Three Phase Rectifier Bridge

V_{RRM} 800 to 1800V
I_D 160 A



Applications

- Three phase rectifiers for power supplies
- Rectifiers for DC motor field supplies
- Battery charger rectifiers
- Input rectifiers for variable frequency drives

Features

- Three phase bridge rectifier
- Blocking voltage:800 to 1800V
- Heat transfer through aluminum oxide DBC ceramic isolated metal baseplate
- Glass passivated chip
- UL recognized applied for file no. E360040

		RSM
MD160S08M5	800V	900V
MD160S12M5	1200V	1300V
MD160S16M5	1600V	1700V
MD160S18M5	1800V	1900V

Maximum Ratings

Symbol	Conditions	Values	Units
I_D	Three phase, full wave Tc=100	160	A
I_{FSM}	t=10mS Tvj =45	1800	A
i^2t	t=10mS Tvj =45	16200	A^2s
Visol	a.c.50HZ;r.m.s.;1min	3000	V
Tvj		-40 to +150	
Tstg		-40 to +125	
Mt	To terminals(M6)	5–15%	Nm
Ms	To heatsink(M6)	5–15%	Nm
Weight	Module(Approximately)	194	g

Thermal Characteristics

Symbol	Conditions	Values	Units
Rth(j-c)	Per diode	0.65	/W
Rth(c-s)	Module	0.03	/W

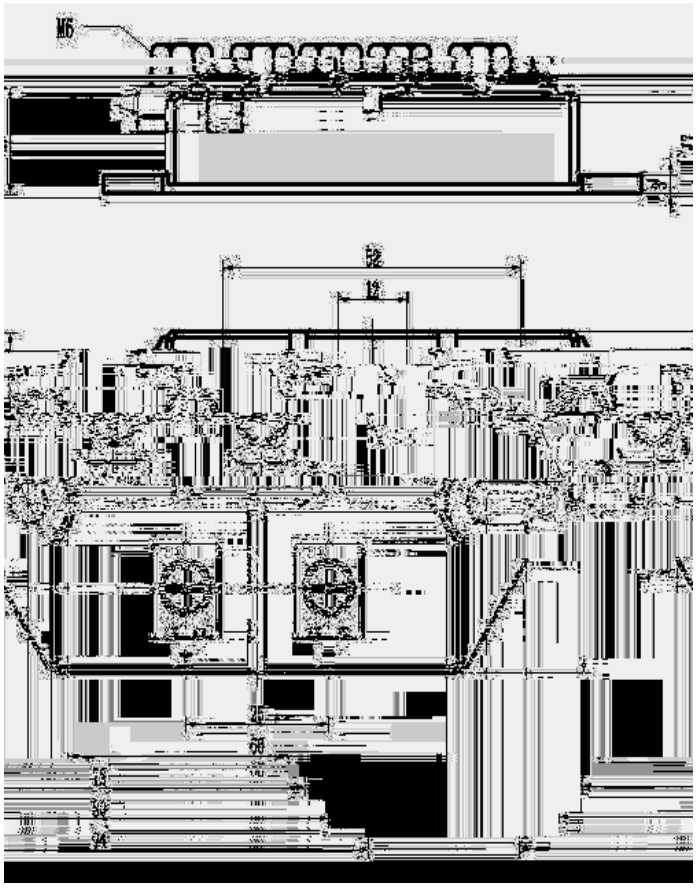
Electrical Characteristics

Symbol	Conditions	Values			Units
		Min.	Typ.	Max.	
V_{FM}	T=25 I_F =300A	É	1.50	1.75	V
I_{RD}	Tvj=25 $V_{RD}=V_{RRM}$ Tvj=150 $V_{RD}=V_{RRM}$	É	É	0.5 6	mA mA

Performance Curves

Package Outline Information

CASE ÖM5



Dimensions in mm