micross components

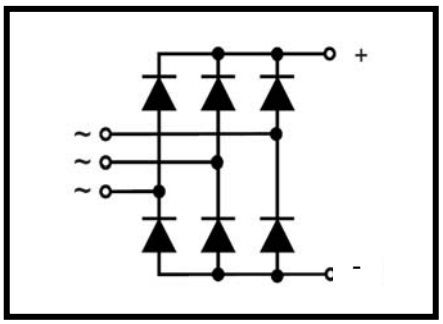
MIMMD200FB160X

1200V 200A Rectifier Module
RoHS Compliant

Features

- Package with screw terminals
- Isolation voltage 3000 V~
- Planar passivated chips
- Blocking voltage up to 1200 V
- Low forward voltage drop
- UL registered E72873





Applications

- Supplies for DC power equipment
- Input rectifiers for PWM inverter
- Battery DC power supplies
- Field supply for DC motors

Advantages

- Easy to mount with two screws
- Space and weight savings
- Improved temperature and power cycling

ABSOLUTE MAXIMUM RATINGS

T_C=25°C unless otherwise specified

Symbol	Test Condition	Value	Unit
V_{RRM}		1600	V
$I_{d(AV)}$	T_C=100 , module	200	A
I_{FSM}	T_J=45 ; t=10ms (50Hz),sine	2000	A
	V_R=0 t=8.3ms(60Hz),sine	2200	A
	T_J=150 ; t=10ms (50Hz),sine	1800	A
	V_R=0 t=8.3ms(60Hz),sine	1950	A
I^2t	T_J=45 ; t=10ms (50Hz),sine	20000	A^2s
	V_R=0 t=8.3ms(60Hz),sine	24200	A^2s
	T_J=150 ; t=10ms (50Hz),sine	16200	A^2s
	V_R=0 t=8.3ms(60Hz),sine	19010	A^2s
T_J,T_{STG}		-40 to +150	
T_{JM}		150	
V_{ISOL}	50/60Hz RMS t=1 min	2500	V~
	I_{ISOL}≤1mA t=1 s	3000	V~
Md	Mounting torque(M6)	5±15%	N·m
	Terminal connection torque(M6)	5±15%	N·m
Weight	typical	205	g

ELECTRICAL AND THERMAL CHARACTERISTICS

T_C=25°C unless otherwise specified

Symbol	Test Condition	Value	Unit
I_R	V_R= V_{RRM}; T_J = 25	≤0.5	mA
	V_R= V_{RRM}; T_J =T_{JM}	≤5	mA
V_F	I_F=300A; T_J=125	1.51	V
V_{T0}	For power-loss calculations only	0.8	V
R_{thJC}	per diode	0.54	K/W
	Per module	0.09	K/W
R_{thCS}	per diode	0.18	K/W
	per module	0.03	K/W
d_S	Creeping distance on surface	10	mm
d_A	Cree page distance in air	9.4	mm
a	Max. allowable acceleration	50	m/s^2

NOTE: Data according to IEC 60747 and refer to a single diode unless otherwise stated.

Package Outline (Dimensions in mm)

