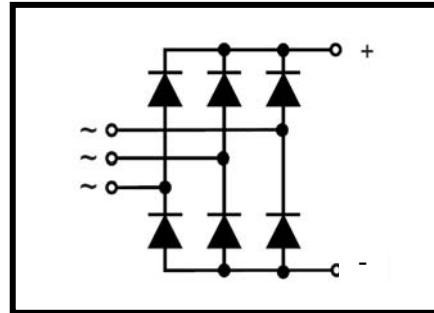


Features

- 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
 $T_C=25^{\circ}\text{C}$ unless otherwise specified

Symbol	Test Condition	Value	Unit
V_{RRM}		1600	V
$I_{d(AV)}$	$T_C=100^{\circ}\text{C}$, module	200	A
I_{FSM}	$T_J=45^{\circ}\text{C}$; $t=10\text{ms}$ (50Hz),sine $V_R=0$ $t=8.3\text{ms}$ (60Hz),sine	2000	A
	$T_J=150^{\circ}\text{C}$; $t=10\text{ms}$ (50Hz),sine $V_R=0$ $t=8.3\text{ms}$ (60Hz),sine	2200	A
	$T_J=45^{\circ}\text{C}$; $t=10\text{ms}$ (50Hz),sine $V_R=0$ $t=8.3\text{ms}$ (60Hz),sine	1800	A
	$T_J=150^{\circ}\text{C}$; $t=10\text{ms}$ (50Hz),sine $V_R=0$ $t=8.3\text{ms}$ (60Hz),sine	1950	A
I^2t	$T_J=45^{\circ}\text{C}$; $t=10\text{ms}$ (50Hz),sine $V_R=0$ $t=8.3\text{ms}$ (60Hz),sine	20000	A^2s
	$T_J=150^{\circ}\text{C}$; $t=10\text{ms}$ (50Hz),sine $V_R=0$ $t=8.3\text{ms}$ (60Hz),sine	24200	A^2s
	$T_J=45^{\circ}\text{C}$; $t=10\text{ms}$ (50Hz),sine $V_R=0$ $t=8.3\text{ms}$ (60Hz),sine	16200	A^2s
	$T_J=150^{\circ}\text{C}$; $t=10\text{ms}$ (50Hz),sine $V_R=0$ $t=8.3\text{ms}$ (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~
	$I_{ISOL} \leq 1\text{mA}$ $t=1$ s	3000	V~
Md	Mounting torque(M6)	$5 \pm 15\%$	N·m
	Terminal connection torque(M6)	$5 \pm 15\%$	N·m
Weight	typical	205	g

MIMMD200FB160X

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)

