

MMD150F160X

1600V 150A Rectifier Module
RoHS Compliant

Dec 2008

PRELIMINARY

Features

- Package with screw terminals
- Isolation voltage 3000 V~
- Planar passivated chips
- Blocking voltage up to 1600 V
- Low forward voltage drop
- UL registered E332185

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}			

ELECTRICAL AND THERMAL CHARACTERISTICS $T_C=25^{\circ}\text{C}$ 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	$I_F = 300\text{A}; T_J = 125$	1.56	V
V_{T0}	For power-loss calculations only	0.8	V
R_{thJC}	per diode	0.6	K/W
	Per module	0.1	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)

