

Glass Passivated Rectifier Diode Modules

Features

- Non-controllable rectifiers for AC/AC converters
- Line rectifiers for transistorized AC motor controllers
- Field supply for DC motors

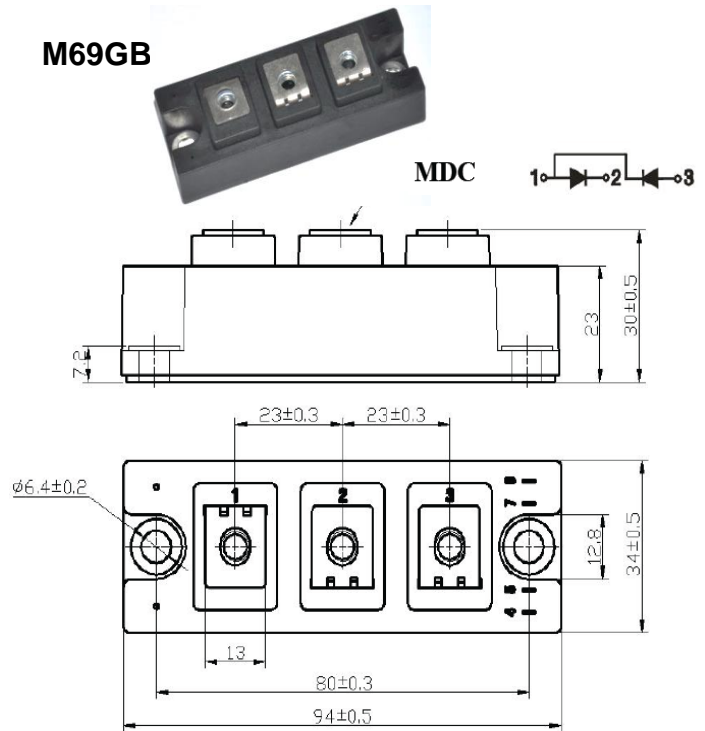
Mechanical Data

- Blocking voltage: 1200 to 1800V
- Heat transfer through aluminum oxide DBC ceramic isolated metal baseplate
- Glass passivated chip

Note: Products with logo  or  are made by HY Electronic (Cayman) Limited.

Reverse Voltage 1200 - 1800 Volts
Forward Current - 200 Amperes

M69GB



Package Outline Dimensions in Millimeters

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

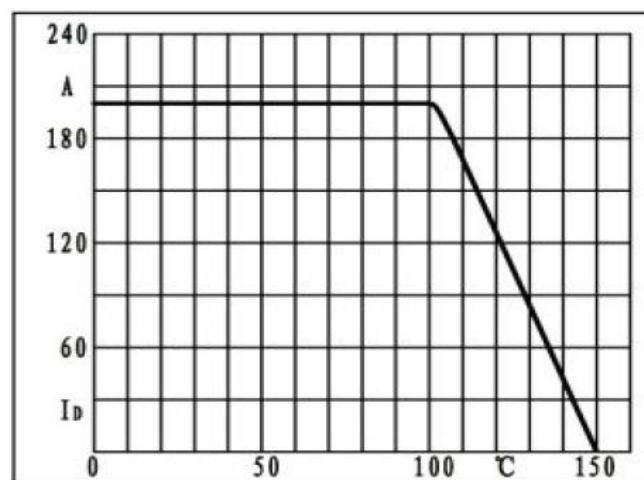
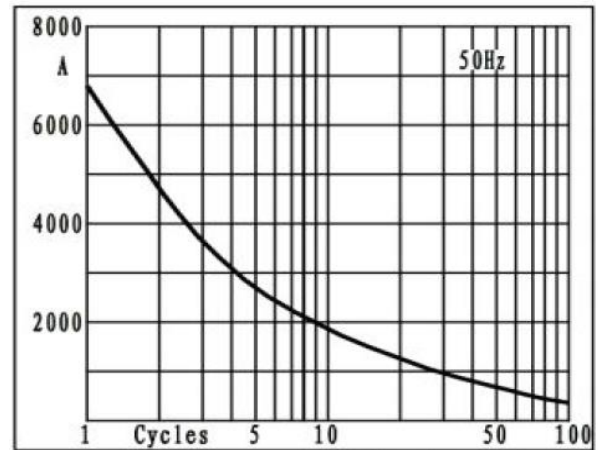
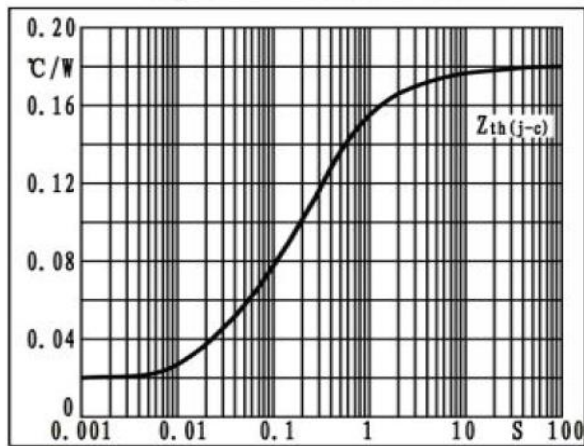
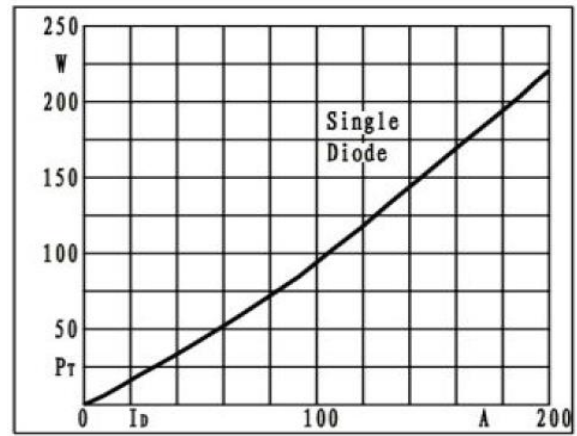
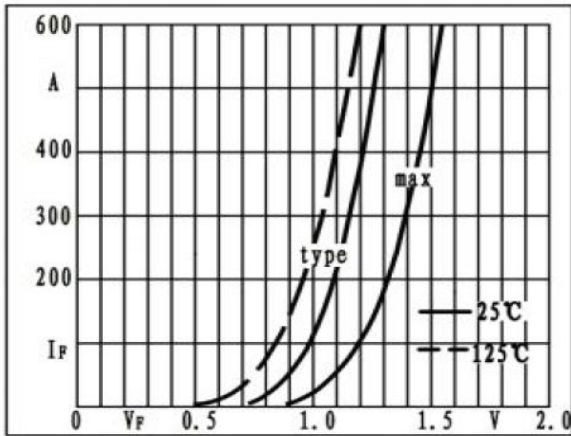
Module Type

TYPE	VRRM	VRS
MDC200GB-12	1200V	1300V
MDC200GB-16	1600V	1700V
MDC200GB-18	1800V	1900V

Characteristics	Symbol	Values	Units
Single phase, half wave 180° conduction Tc=100°C	IFAV	200	A
t=10mS Tvj =45°C	IFSM	6800	A
t=10mS Tvj =45°C	I ² t	231200	A ² s
a.c. 50Hz; r.m.s.; 1min	Visol	3000	V
	Tvj	-40 to +150	°C
	Tstg	-40 to +125	°C
To terminals (M6)	Mt	5±15%	Nm
To heatsink (M6)	Ms	5±15%	Nm
Module (Approximately)	Weight	200	g
Per diode	Rth(j-c)	0.18	°C/W
Module	Rth(c-s)	0.05	°C/W
T=25°C IF =600A	VFM	1.3(TYP.) 1.55(MAX.)	V
Tvj=25°C VRD=VRRM	IRD	18(MAX.)	μA
Tvj=150°C VRD=VRRM		9(MAX.)	mA

MDC200GB-*-B-00-00

Rev. 1, 17-Mar-2020



The curve above is for reference only.

MDC200GB-* -B-00-00

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