

# MG038D150160A

**Bridge Diodes**  
**1600V, 150A**

**Feature**

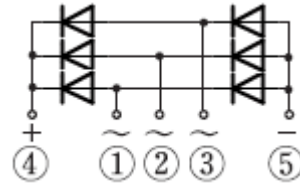
- High current capacity
- Thin PKG 17mm
- High heat dissipation
- Halogen free
- Pb free terminal
- RoHS:Yes

**OUTLINE**

Package (House Name): MG038



**Equivalent circuit**



**Absolute Maximum Ratings** (unless otherwise specified : Tc=25°C)

Item	Symbol	Conditions	Ratings	Unit
Storage temperature	Tstg		-40 to 125	°C
Junction temperature	Tj		150	°C
Repetitive peak reverse voltage	VRRM		1600	V
Average forward current	IF(AV)	50Hz sine wave, Resistance load, With heatsink, Tc=125°C	150	A
Surge forward current	IFSM	50Hz sine wave, Non-repetitive 1 cycle peak value, per diode, Tj=125°C	1600	A
Dielectric strength	Vdis	Terminals to case, AC 1 minute	2.5	kV
Mounting torque	TOR	(M5)	2.8	N·m

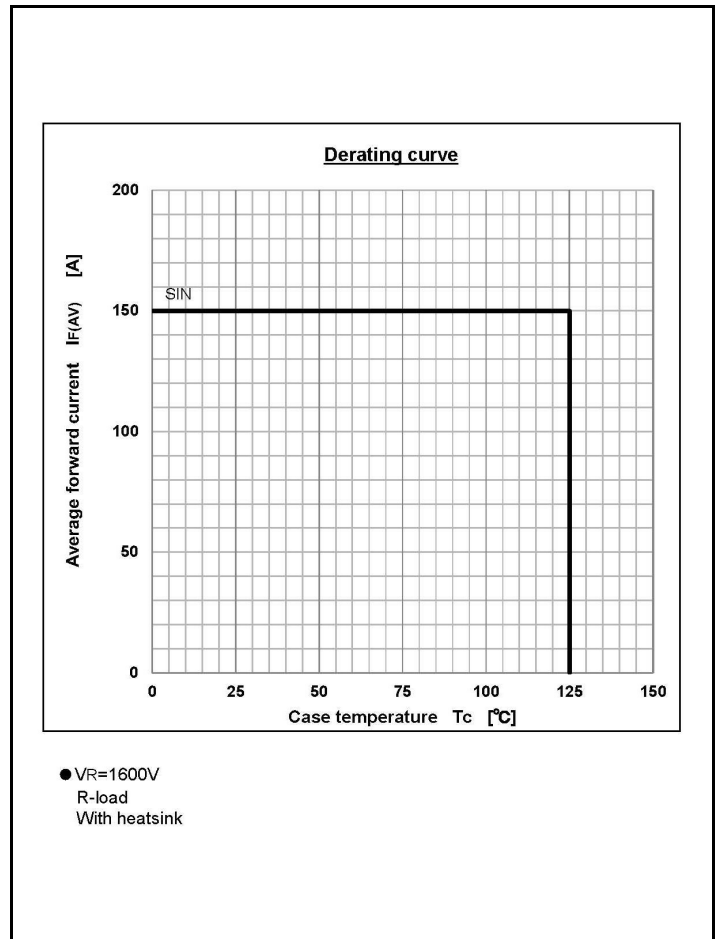
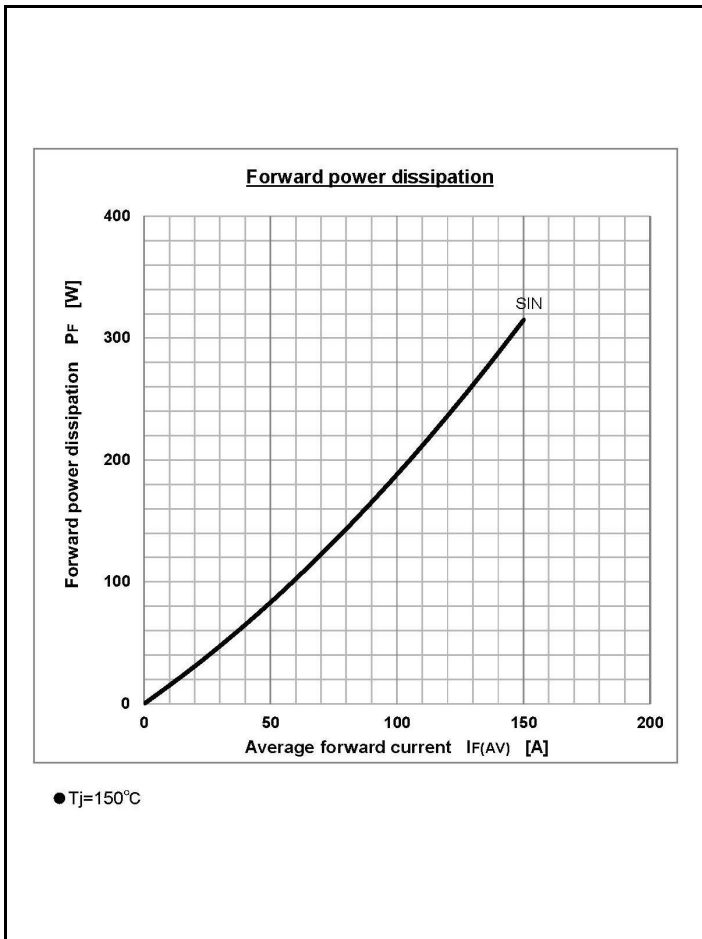
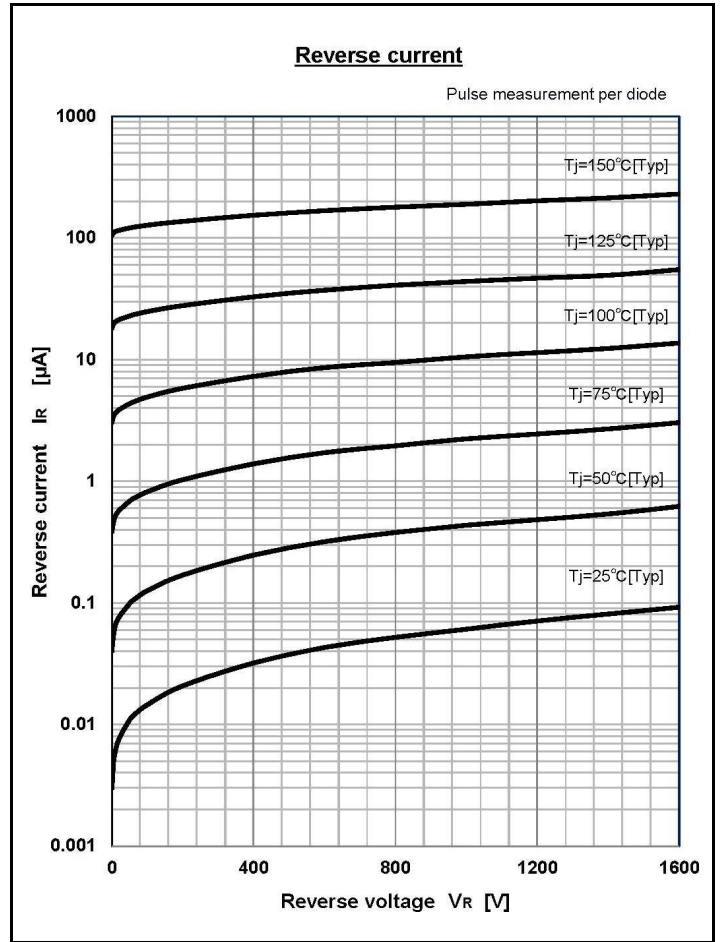
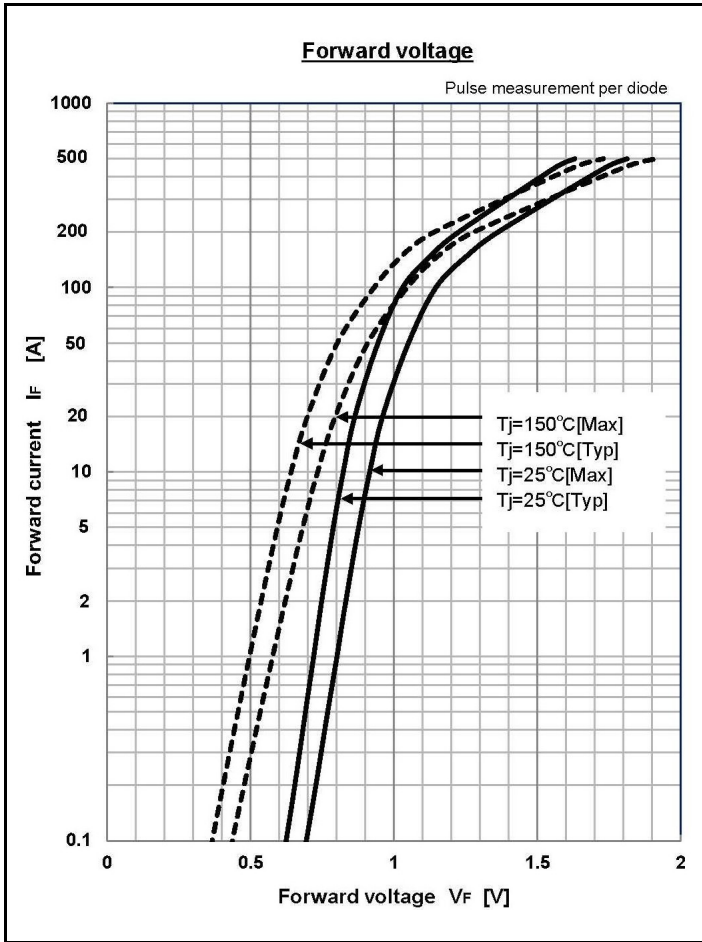
※ :See the original Specifications

**Electrical Characteristics** (unless otherwise specified : Tc=25°C)

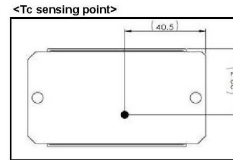
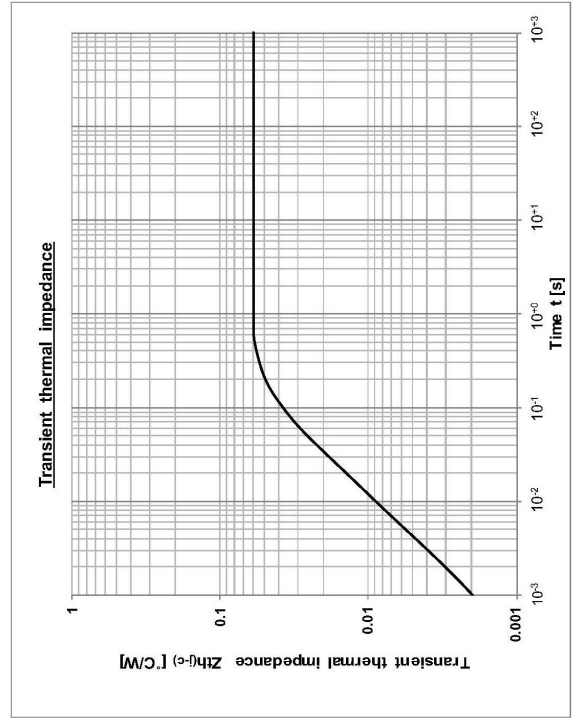
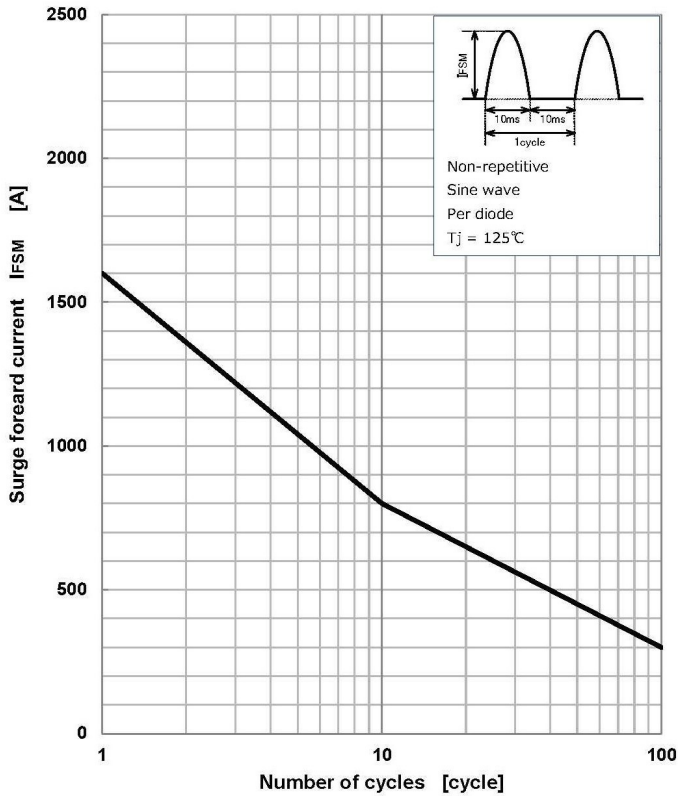
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V <sub>F</sub>	IF=50A, Pulse measurement, per diode			1.05	V
Reverse current	I <sub>R</sub>	VR=1600V, Pulse measurement, per diode			10	μA
Thermal resistance	Rth(j-c)	Junction to case, With heatsink. Per module			0.06	°C/W

\* :See the original Specifications

# CHARACTERISTIC DIAGRAMS

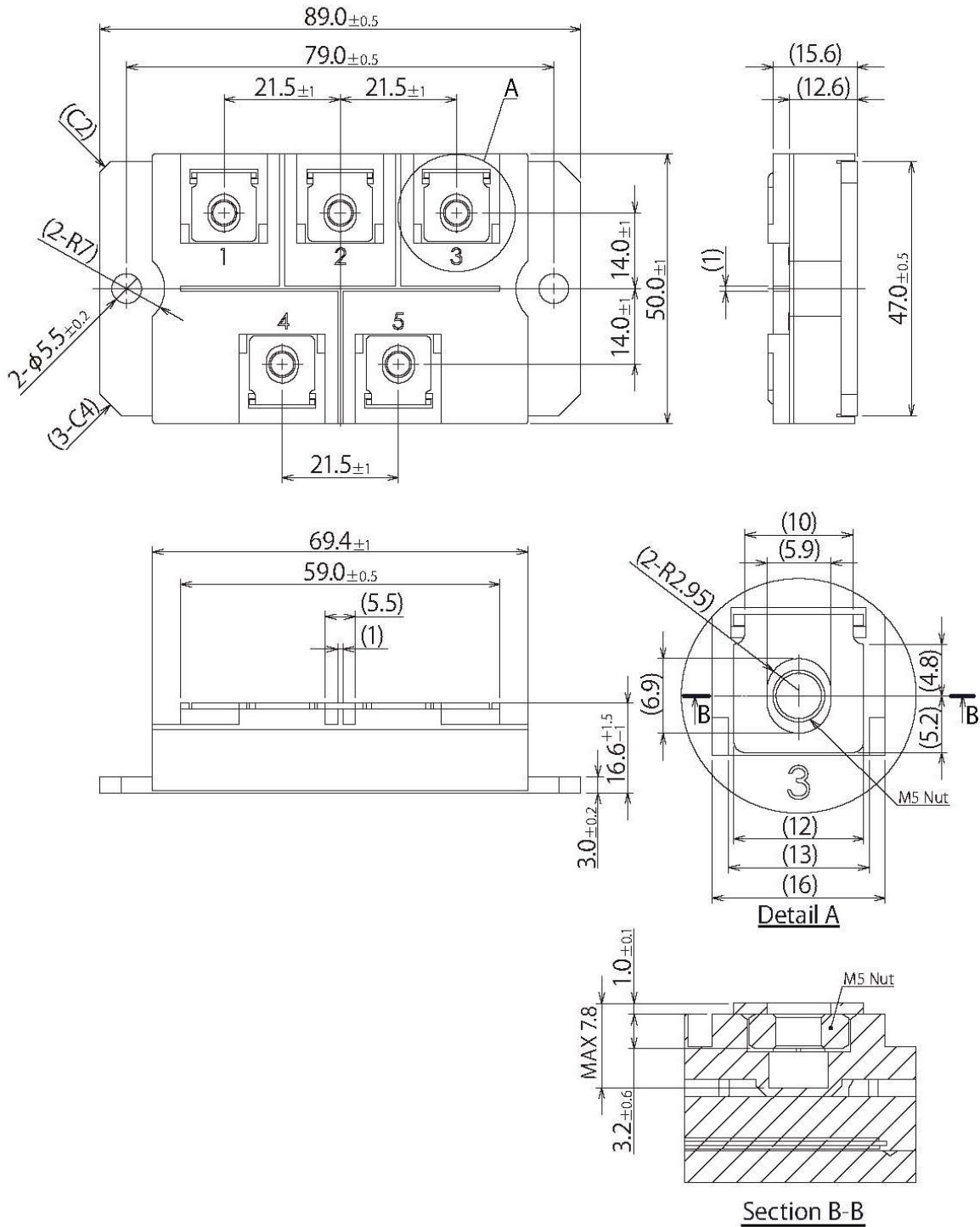


**Surge forward current capability**



F7

JEDEC Code	-
JEITA Code	-
House Name	MG038



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