

# MG061C200080A

## Bridge Diodes

800V, 200A

### Feature

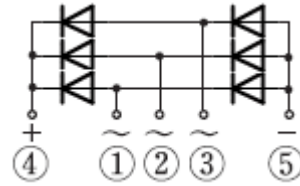
- High current capacity
- Thin PKG 17mm
- High heat dissipation
- Halogen free
- Pb free terminal
- RoHS:Yes

### OUTLINE

Package (House Name): MG061



### Equivalent circuit



### Absolute Maximum Ratings (unless otherwise specified : T<sub>c</sub>=25°C)

Item	Symbol	Conditions	Ratings	Unit
Storage temperature	T <sub>stg</sub>		-40 to 125	°C
Junction temperature	T <sub>j</sub>		150	°C
Repetitive peak reverse voltage	V <sub>RRM</sub>		800	V
Non-repetitive peak reverse voltage	V <sub>RSM</sub>		900	V
Average forward current	I <sub>F(AV)</sub>	50Hz sine wave, Resistance load, With heatsink, T <sub>c</sub> =125°C	200	A
Surge forward current	I <sub>FSM</sub>	50Hz sine wave, Non-repetitive 1 cycle peak value, per diode, T <sub>j</sub> =125°C	2050	A
Dielectric strength	V <sub>dis</sub>	Terminals to case, AC 1 minute	2.5	kV
Mounting torque	TOR	(M5)	2.8	N·m

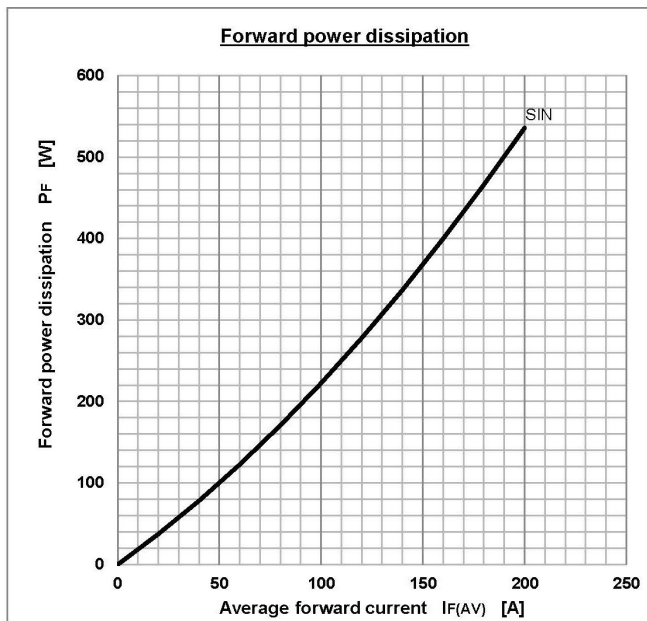
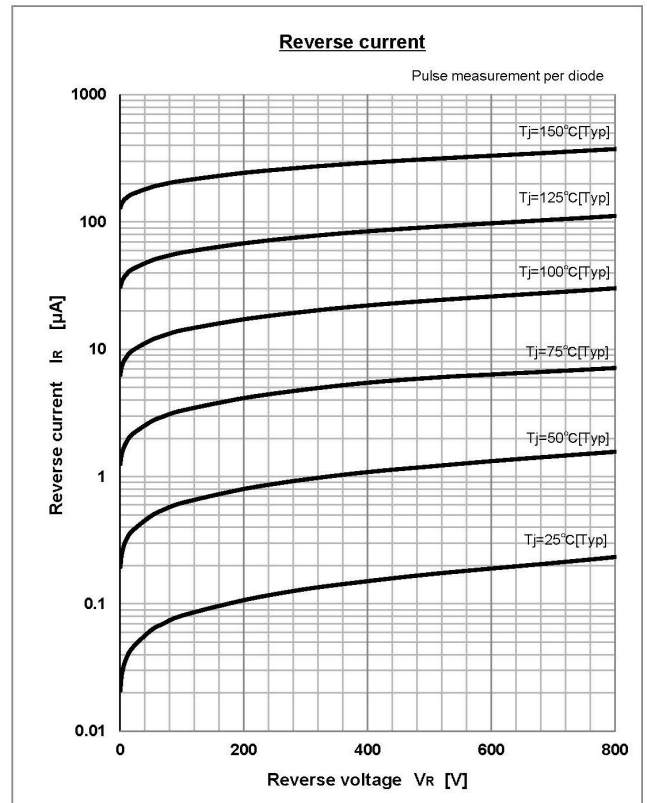
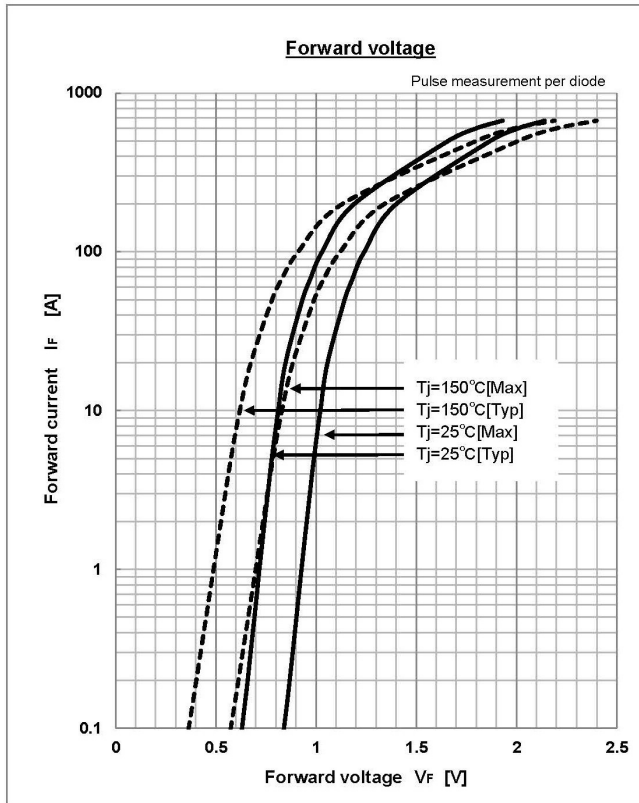
\* : See the original Specifications

**Electrical Characteristics** (unless otherwise specified : T<sub>c</sub>=25°C)

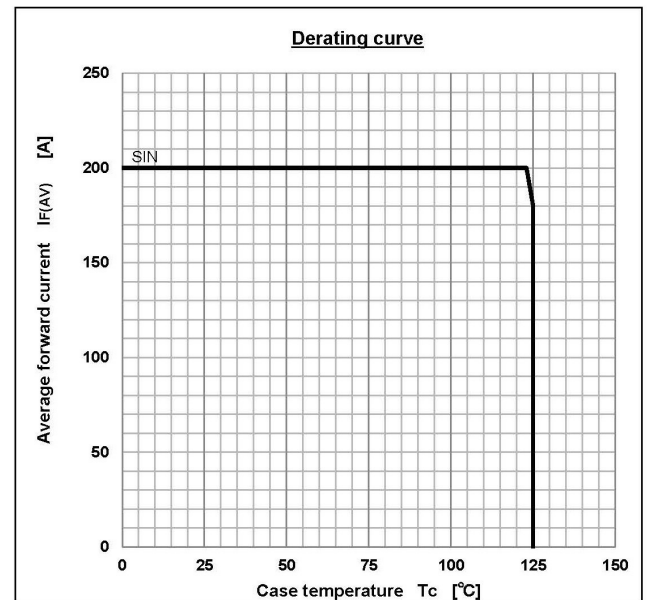
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V <sub>F</sub>	I <sub>F</sub> =67A, Pulse measurement, per diode			1.18	V
Forward voltage	V <sub>F</sub>	I <sub>F</sub> =200A, Pulse measurement, per diode			1.4	V
Reverse current	I <sub>R</sub>	V <sub>R</sub> =800V, Pulse measurement, per diode			10	μA
Thermal resistance	R <sub>th(j-c)</sub>	Junction to case, With heatsink. Per module			0.05	°C/W

\* : See the original Specifications

# CHARACTERISTIC DIAGRAMS

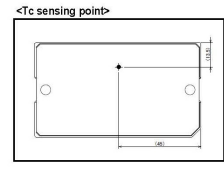
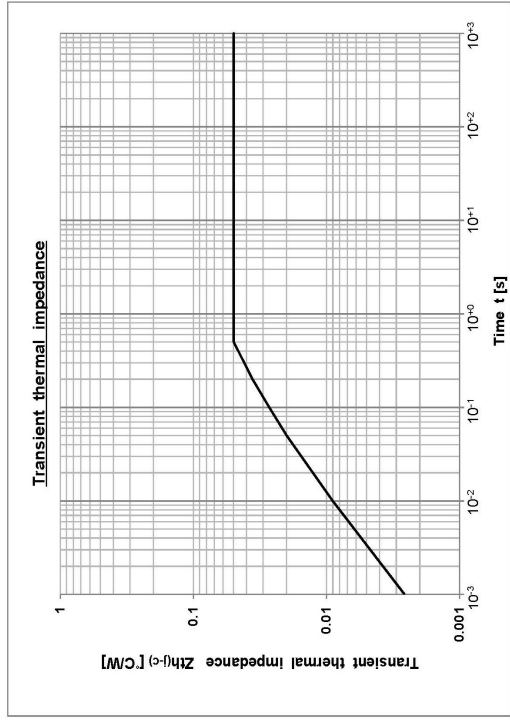
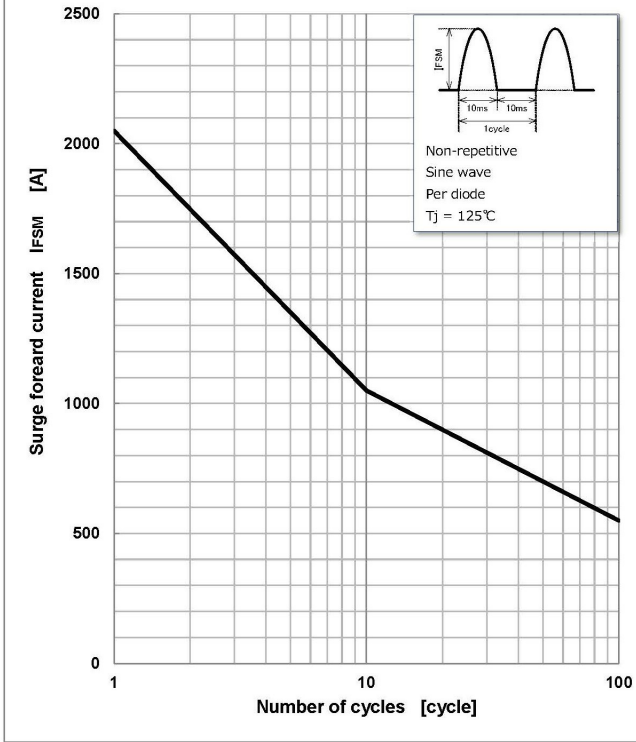


●  $T_j = 150^\circ\text{C}$



●  $V_R = 800\text{V}$   
 R-load  
 With heatsink  
 $I_{F(AV)} = 200\text{A} (T_c = 123^\circ\text{C})$

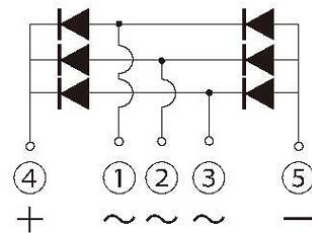
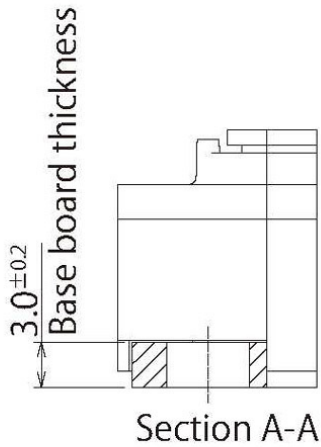
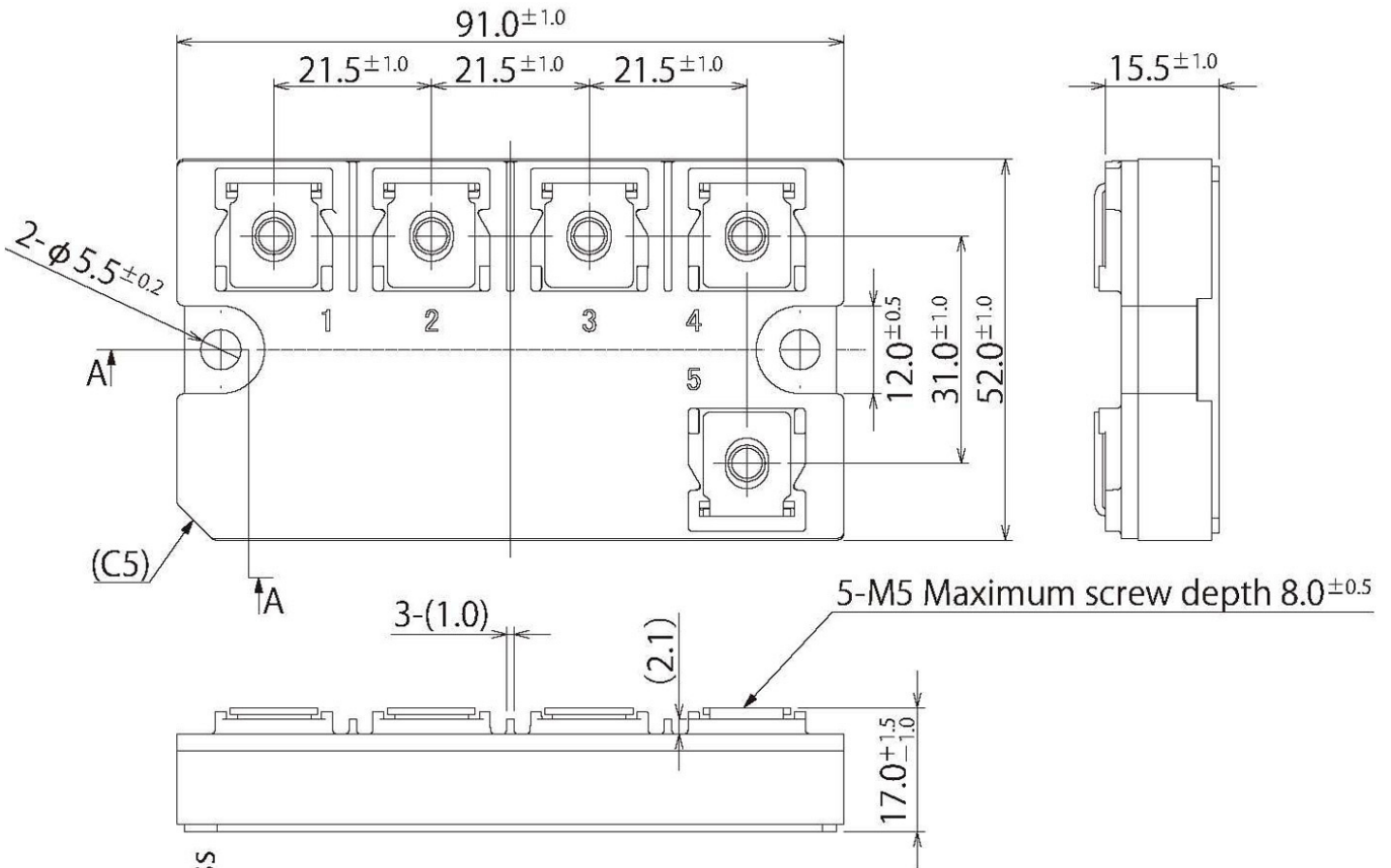
**Surge forward current capability**



Specification No. \_\_\_\_\_

F10

JEDEC Code	—
JEITA Code	—
House Name	MG061



## Notes

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