

MG061F200160A

Bridge Diodes
1600V, 200A

Feature

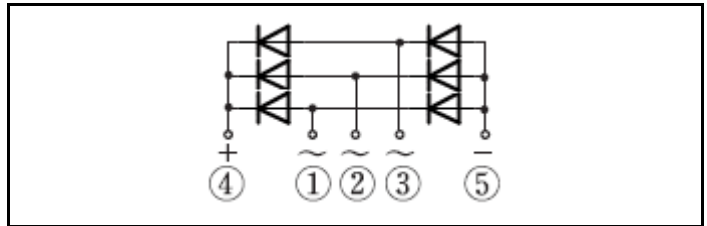
- High current capacity
- Thin PKG 17mm
- High heat dissipation
- Halogen free
- Pb free terminal
- RoHS:Yes

OUTLINE

Package (House Name): MG061



Equivalent circuit



Absolute Maximum Ratings (unless otherwise specified : 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
Non-repetitive peak reverse voltage	VRSM		1700	V
Average forward current	IF(AV)	50Hz sine wave, Resistance load, With heatsink, Tc=125°C	200	A
Surge forward current	IFSM	50Hz sine wave, Non-repetitive 1 cycle peak value, per diode, Tj=125°C	2000	A
Dielectric strength	Vdis	Terminals to case, AC 1 minute	2.5	kV
Mounting torque	TOR	(M5)	2.8	N·m

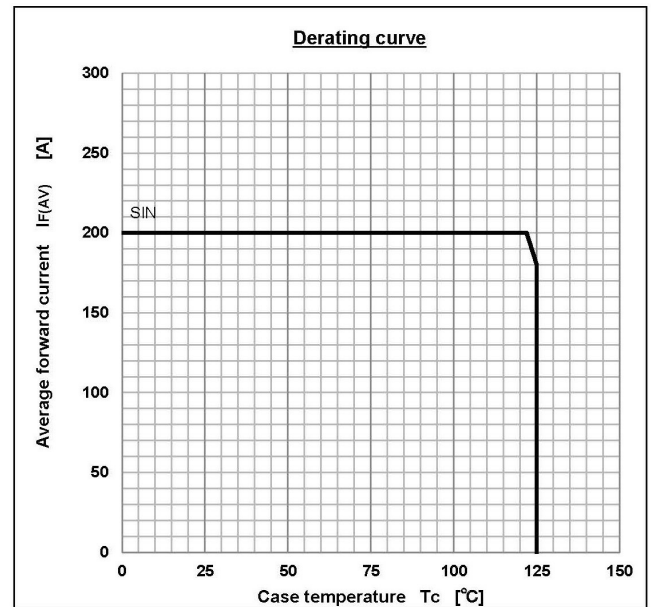
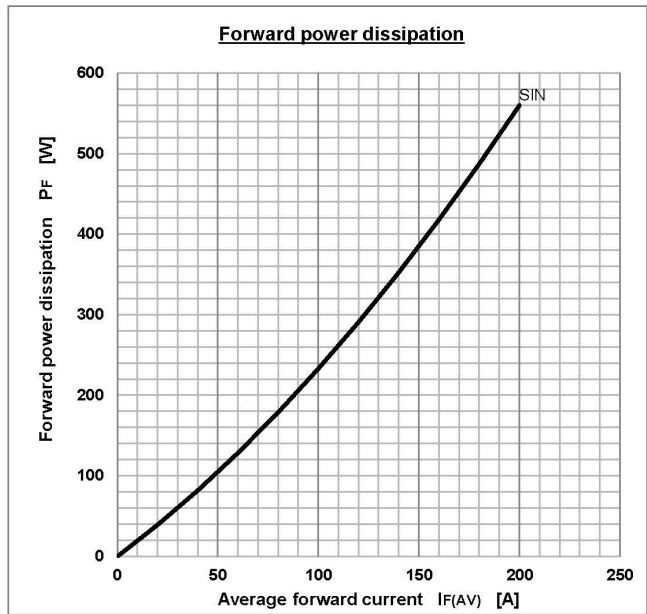
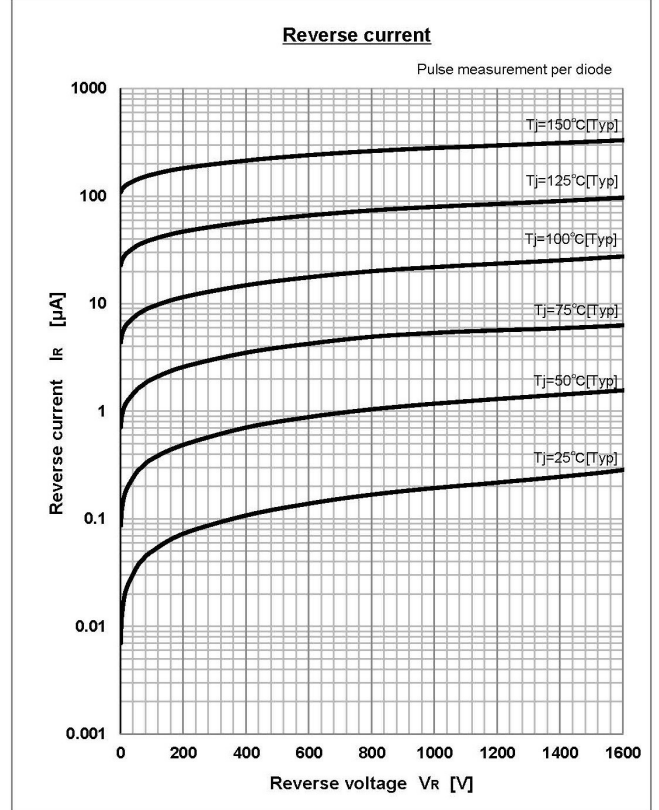
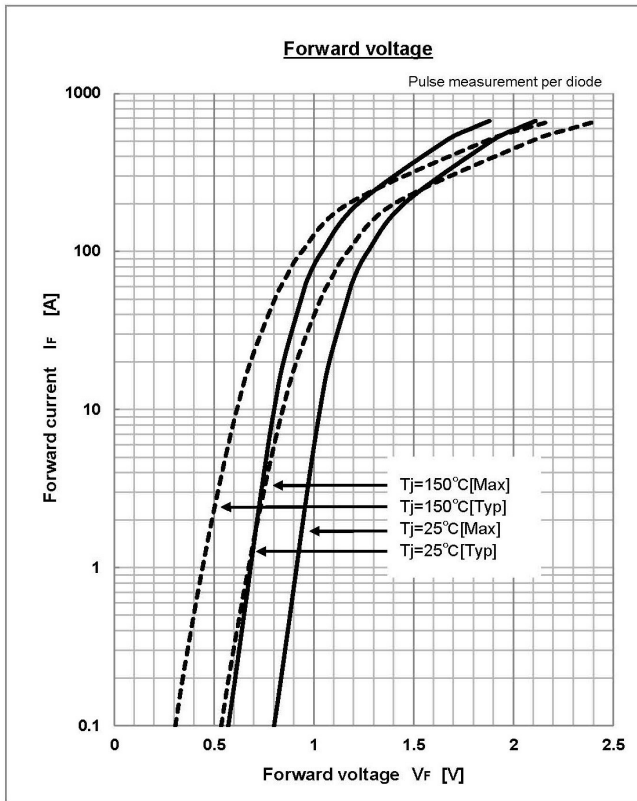
* : See the original Specifications

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

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V _F	IF=67A, Pulse measurement, per diode			1.22	V
Forward voltage	V _F	IF=200A, Pulse measurement, per diode			1.45	V
Reverse current	I _R	VR=1600V, Pulse measurement, per diode			10	μA
Thermal resistance	Rth(j-c)	Junction to case, With heatsink. Per module			0.05	°C/W

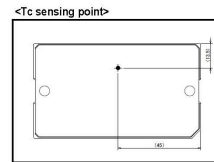
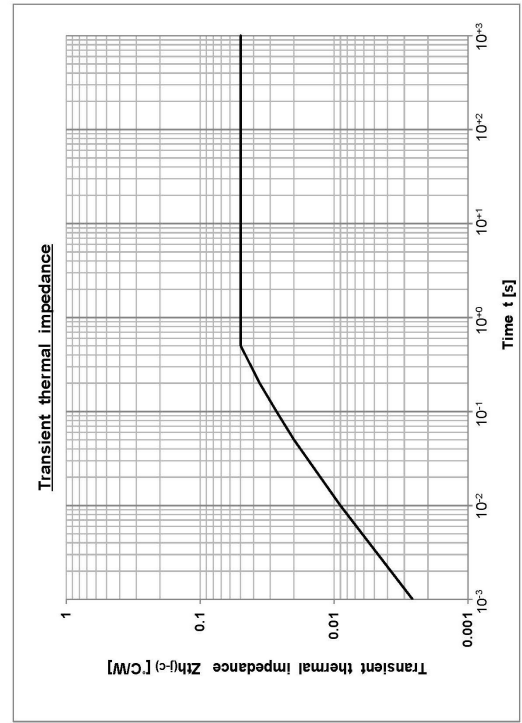
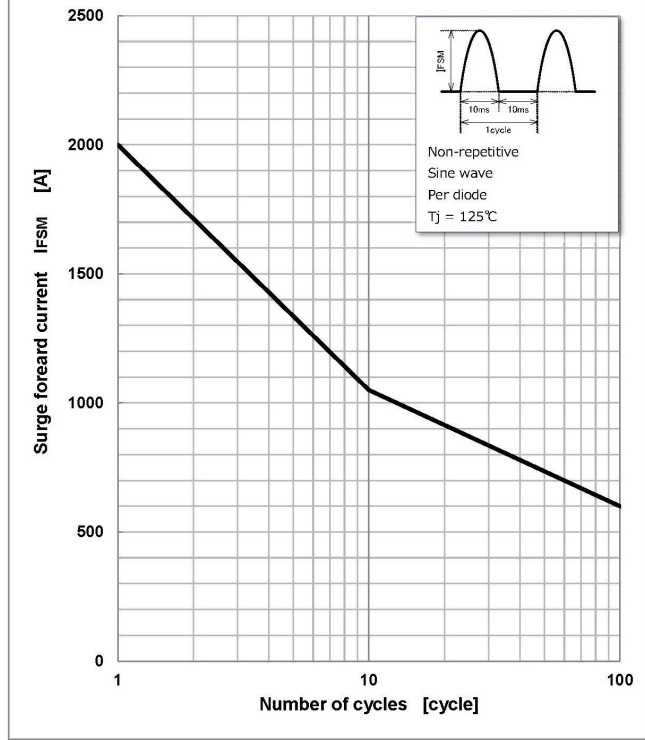
* : See the original Specifications

CHARACTERISTIC DIAGRAMS



● $V_R=1600\text{V}$
 R-load
 With heatsink
 $I_{F(AV)}=200\text{A}(T_c=122^\circ\text{C})$

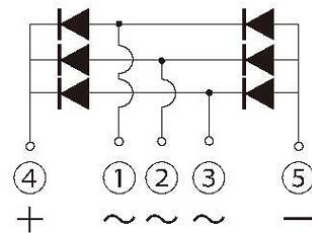
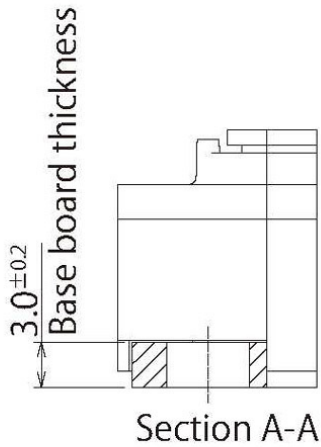
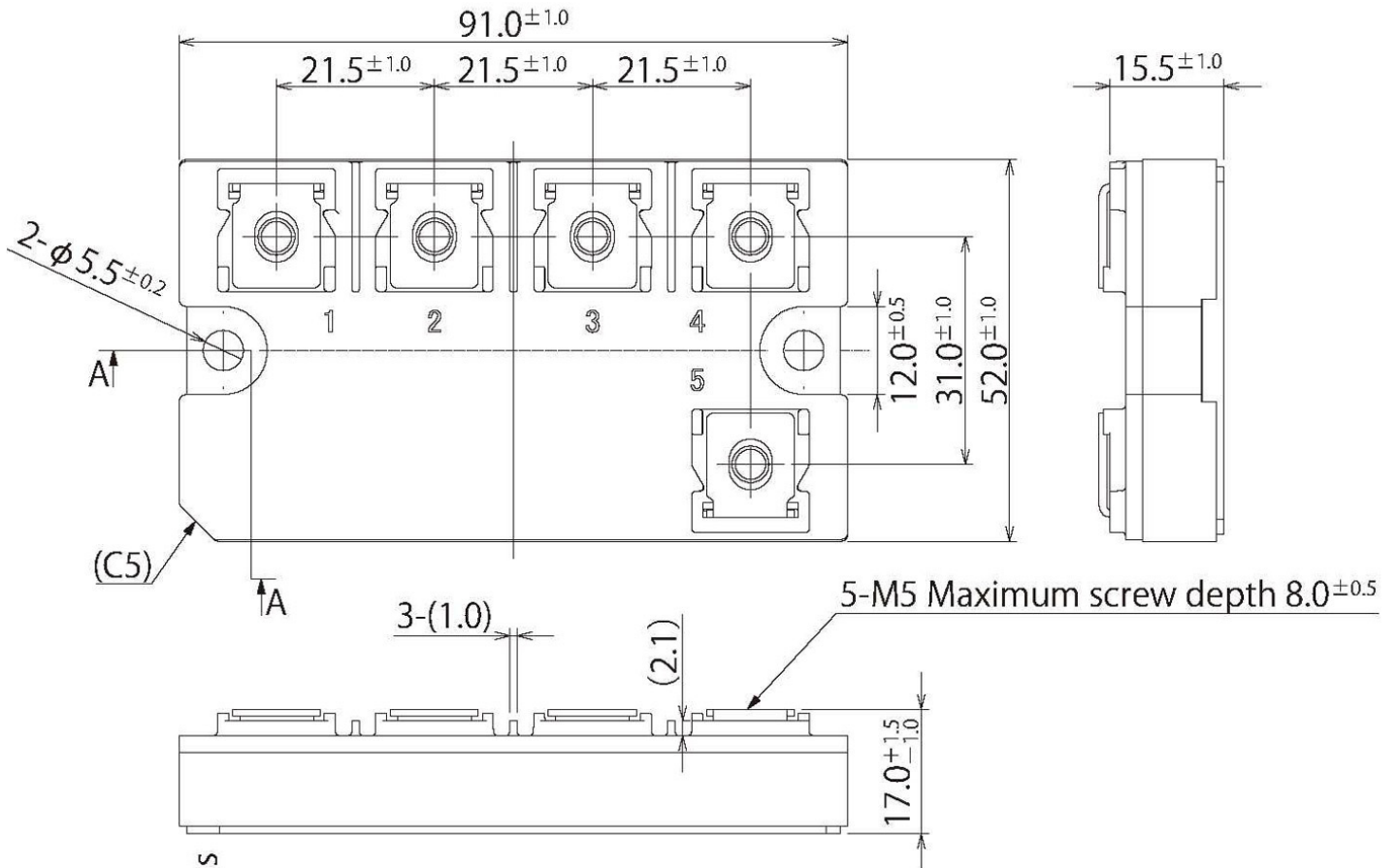
Surge forward current capability



Specification No. _____

F10

JEDEC Code	—
JEITA Code	—
House Name	MG061



Notes

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