

MG060C100080A

Bridge Diodes

800V, 100A

Feature

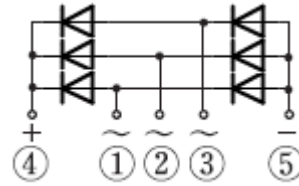
- High current capacity
- Thin PKG 17mm
- High heat dissipation
- Halogen free
- Pb free terminal
- RoHS:Yes

OUTLINE

Package (House Name): MG060



Equivalent circuit



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

Item	Symbol	Conditions	Ratings	Unit
Storage temperature	T _{stg}		-40 to 125	°C
Junction temperature	T _j		150	°C
Repetitive peak reverse voltage	V _{RRM}		800	V
Non-repetitive peak reverse voltage	V _{RSM}		900	V
Average forward current	I _{F(AV)}	50Hz sine wave, Resistance load, With heatsink, T _c =125°C	100	A
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, per diode, T _j =125°C	1200	A
Dielectric strength	V _{dis}	Terminals to case, AC 1 minute	2.5	kV
Mounting torque	TOR	(M5)	2.8	N·m

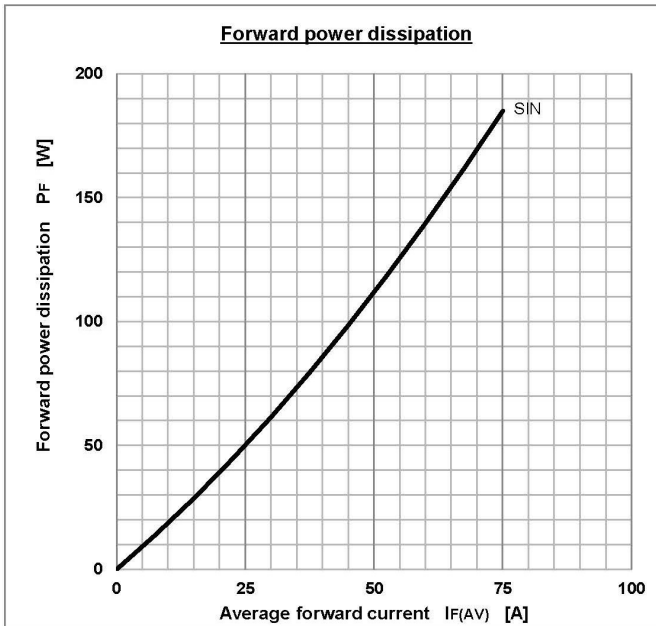
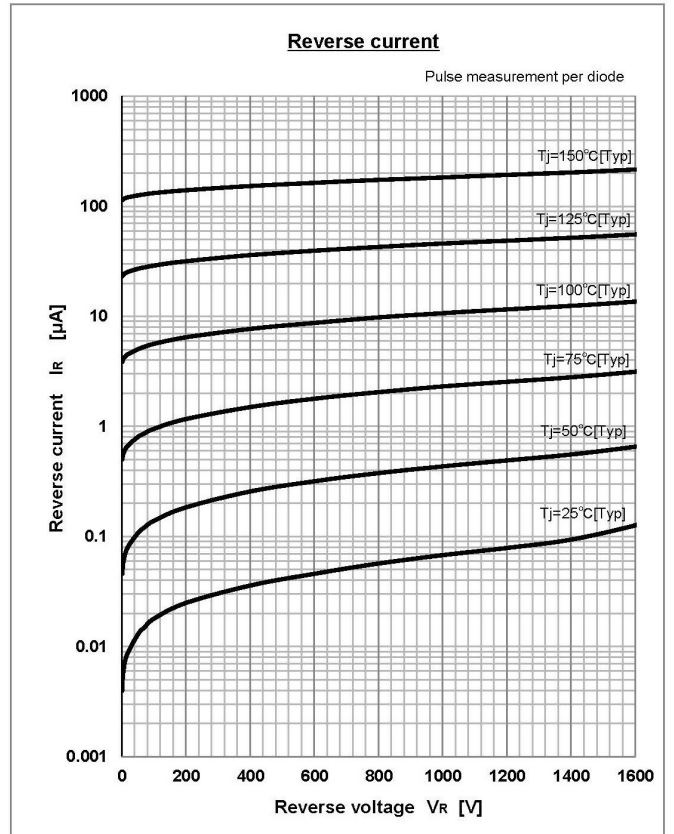
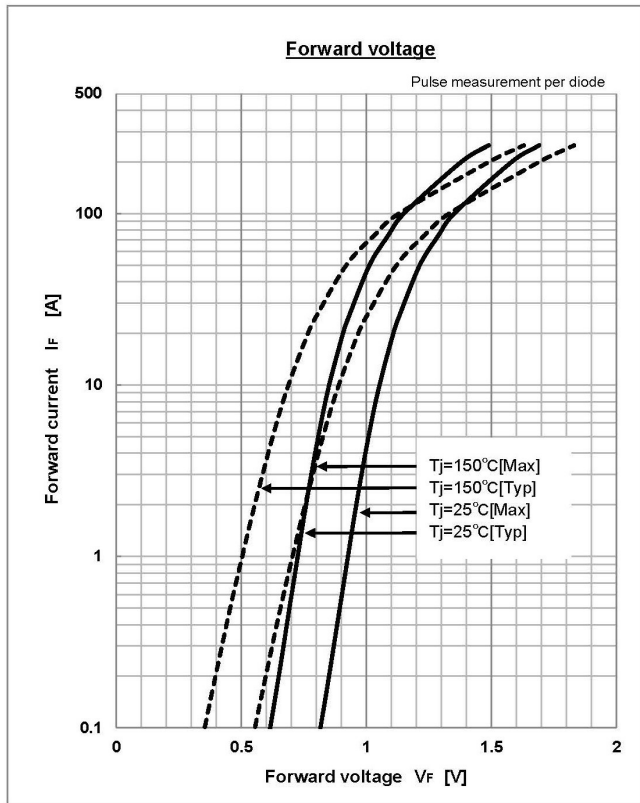
* : See the original Specifications

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

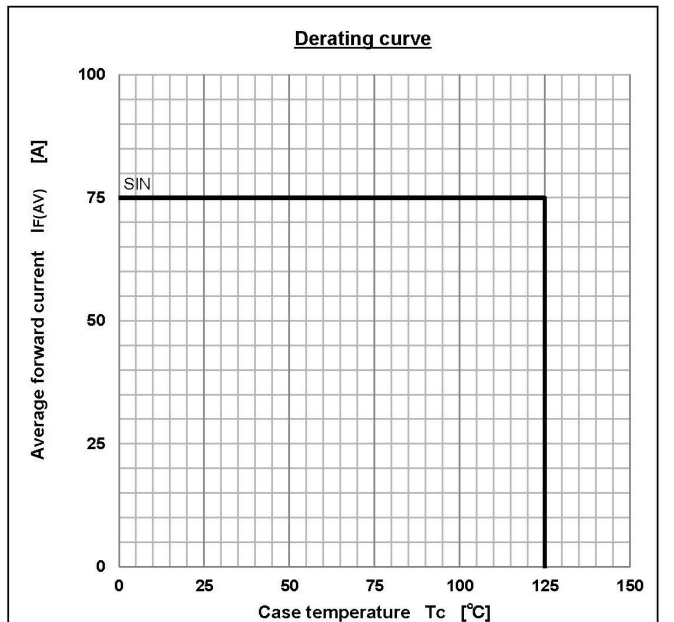
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V _F	IF=34A, Pulse measurement, per diode			1.13	V
Forward voltage	V _F	IF=100A, Pulse measurement, per diode			1.27	V
Reverse current	I _R	VR=800V, Pulse measurement, per diode			10	μA
Thermal resistance	Rth(j-c)	Junction to case, With heatsink. Per module			0.07	°C/W

* : See the original Specifications

CHARACTERISTIC DIAGRAMS

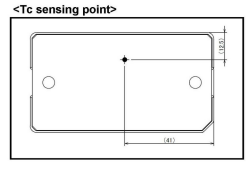
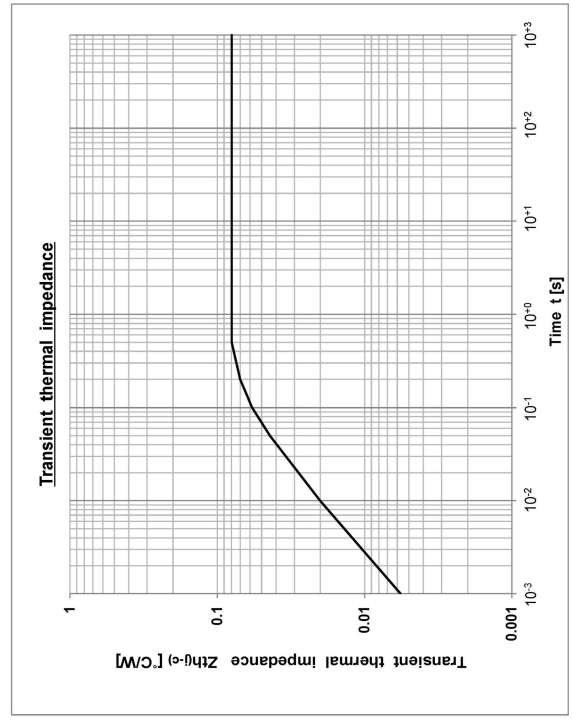
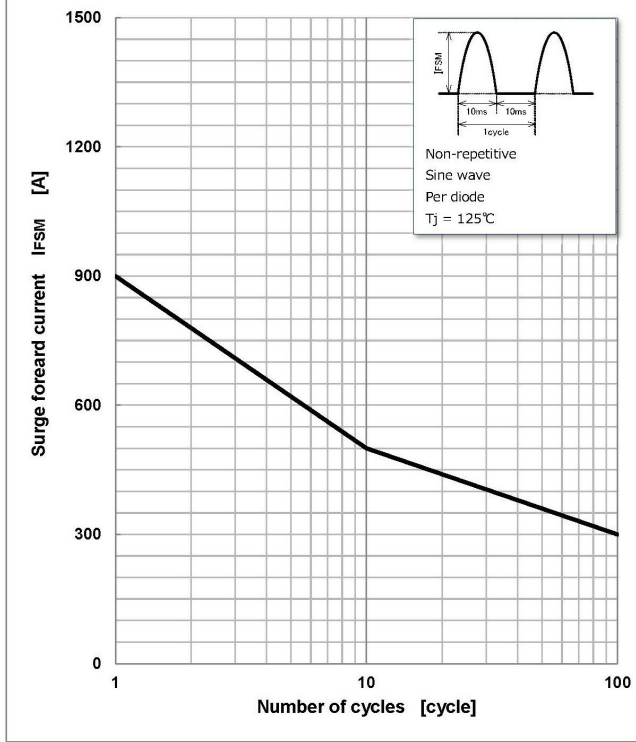


● $T_j=150^\circ\text{C}$



● $V_R=1600\text{V}$
 R-load
 With heatsink
 $I_{F(AV)}=75\text{A}(T_c=125^\circ\text{C})$

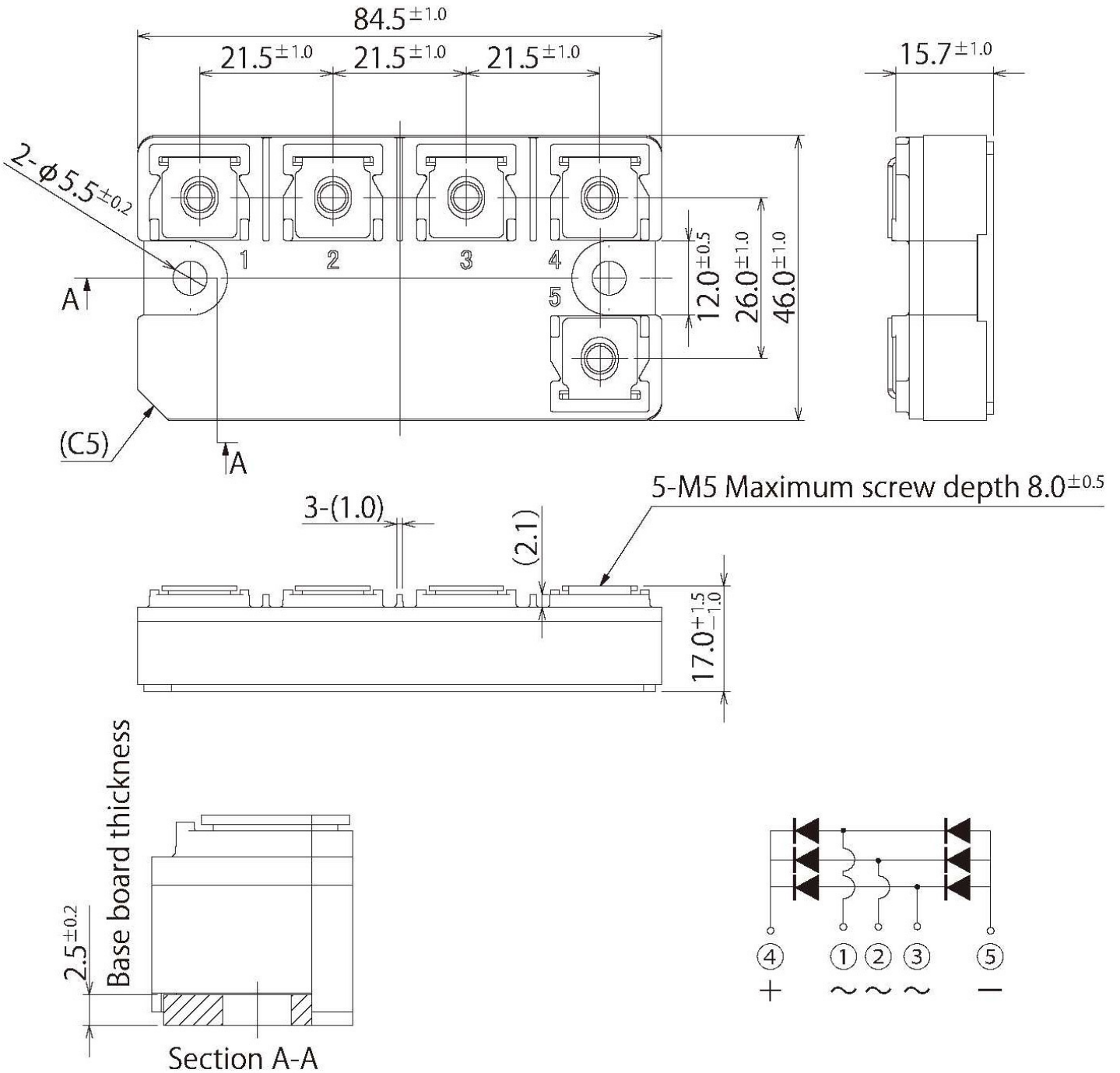
Surge forward current capability



Specification No. _____

F9

JEDEC Code	-
JEITA Code	-
House Name	MG060



Notes

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