

# MG061E150160A

# Bridge Diodes 1600V, 150A

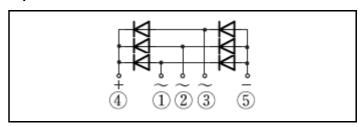
### **Feature**

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

### **OUTLINE**



# **Equivalent circuit**



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

Item	Symbol	Conditions	Ratings	Unit
Storage temperrature	Tstg		-40 to 125	°C
Junction temperature	Tj		150	°C
Repetitive peak reverse voltage	$V_{RRM}$		1600	V
Non-repetitive peak reverse voltage	$V_{RSM}$		1700	V
Average forward current	I <sub>F</sub> (AV)	50Hz sine wave, Resistance load, With heatsink, Tc=125°C	150	А
Surge forward current	I <sub>FSM</sub>	50Hz sine wave, Non-repetitive 1 cycle peak value, per diode, Tj=125°C	1600	А
Dielectric strength	Vdis	Terminals to case, AC 1 minute	2.5	kV
Mounting torque	TOR	(M5)	2.8	N∙m

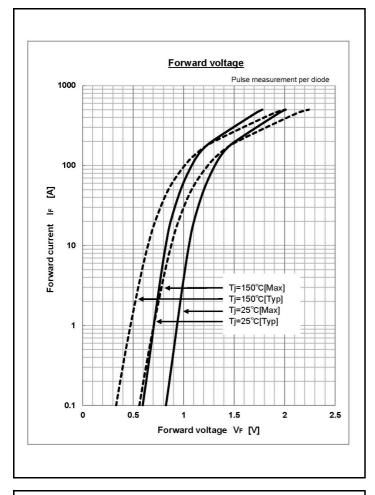
<sup>\* :</sup>See the original Specifications

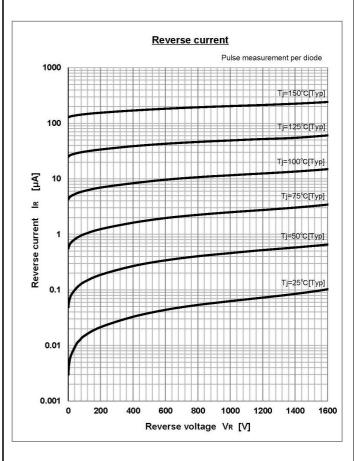
# **Electrical Characteristics** (unless otherwise specified : Tc=25°C)

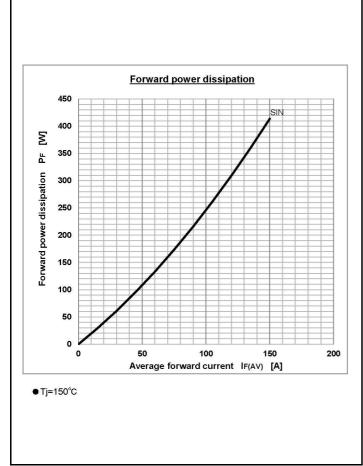
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	Oint
Forward voltage	V <sub>F</sub>	IF=50A, Pulse measurement, per diode			1.2	V
Forward voltage	V <sub>F</sub>	IF=150A, Pulse measurement, per diode			1.4	V
Reverse current	I <sub>R</sub>	VR=1600V, Pulse measurement, per diode			10	μΑ
Thermal resistance	Rth(j-c)	Junction to case, With heatsink. Per module			0.06	°C/W

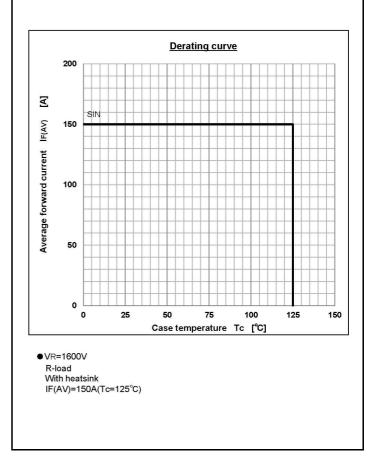
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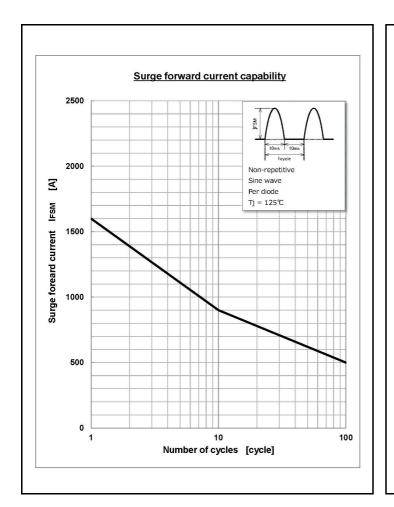
# **CHARACTERISTIC DIAGRAMS**

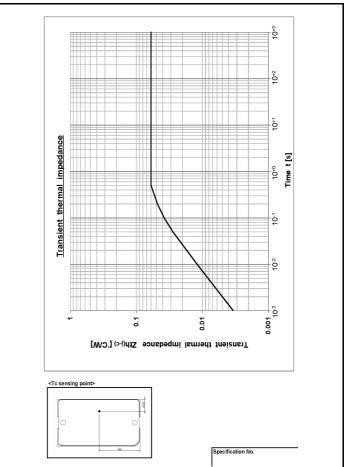


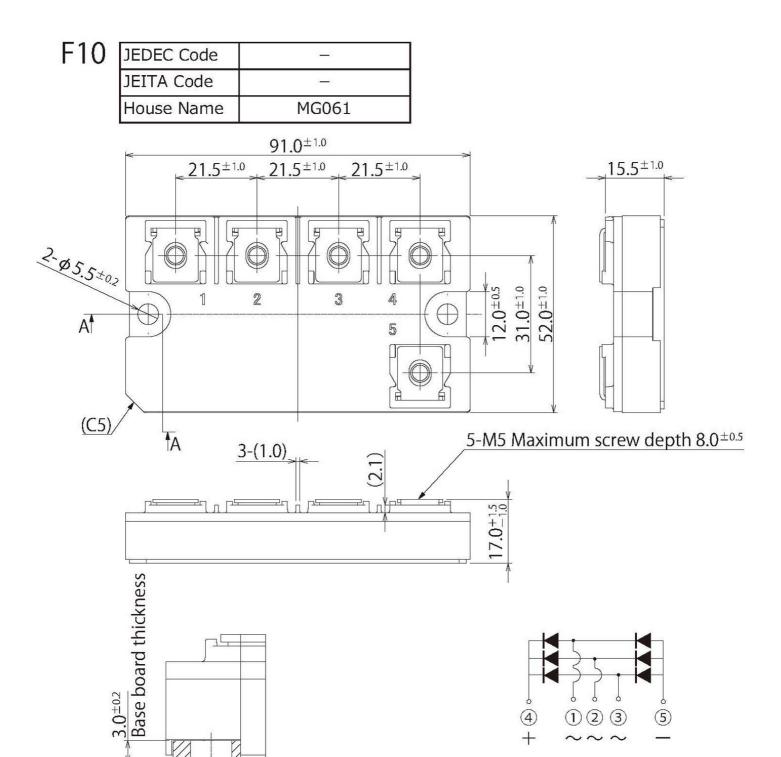












Section A-A

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### [Special applications]

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