

SANYO Semiconductors DATA SHEET

DBG150G

Diffused Junction Silicon Diode

15A Single-Phase Bridge Rectifier

Features

· Glass passivation for high reliability.

· Plastic molded structure.

Peak reverse voltage: V_{RM}=600V.
Average output current: I_O=15A.

Specifications

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Peak Reverse Voltage	VRM		600	V
Average Output Current	la la	Tc=124°C, with heatsink	15	Α
	Ю	Ta=26°C, without heatsink	3.6	Α
Surge Forward Current	IFSM	50Hz sine 1cycle peak value	200	Α
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C
Dilective Strength Voltage	Vdis	Terminals tc case, AC 1 minute	2.5	kV
Tightening Torque	TOR	(): recommended value	0.8(0.5)	N•m

Electrical Characteristics at Ta=25°C Per Constituent element of bridge.

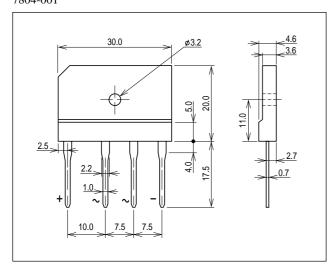
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Forward Voltage	٧F	I _F =7.5A			0.9	V
Reverse Current	IR	V _R =600V			10	μΑ
Thremal Resistance(Junction-Ambient)	Rth(j-a)	Without heatsink			25	°C/W
Thremal Resistance(Junction-Case)	Rth(j-c)	With heatsink			1	°C/W
Thremal Resistance(Junction-Lead)	Rth(j-l)	Without heatsink			5	°C / W

Marking: BG150G

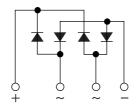
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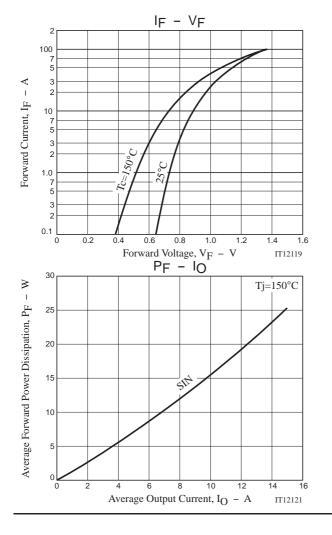
Package Dimensions

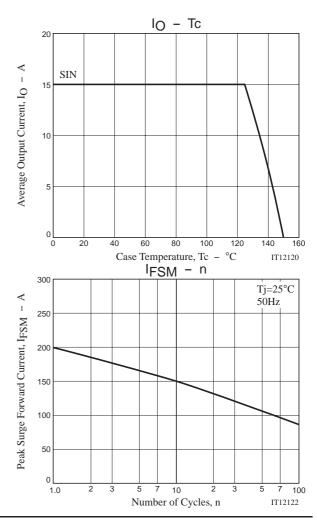
unit : mm (typ) 7804-001



Electrical Connection







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