



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 : VRM=600V.
- Average output current : IO=15A.

Specifications

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings		Unit
Peak Reverse Voltage	VRM			600	V
Average Output Current	IO	Tc=124°C, with heatsink		15	A
		Ta=26°C, without heatsink		3.6	A
Surge Forward Current	IFSM	50Hz sine 1cycle peak value	200		A
Junction Temperature	Tj		150		°C
Storage Temperature	Tstg		-55 to +150		°C
Dielectric 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	
Forward Voltage	VF	IF=7.5A			0.9	V
Reverse Current	IR	VR=600V			10	μA
Thermal Resistance(Junction-Ambient)	Rth(j-a)	Without heatsink			25	°C / W
Thermal Resistance(Junction-Case)	Rth(j-c)	With heatsink			1	°C / W
Thermal Resistance(Junction-Lead)	Rth(j-l)	Without heatsink			5	°C / W

Marking: BG150G

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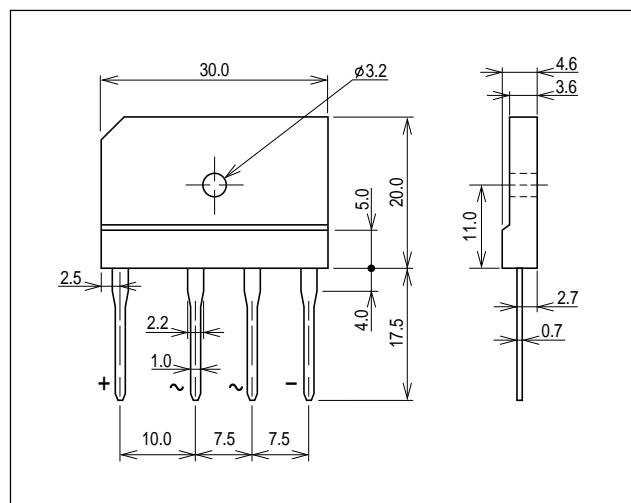
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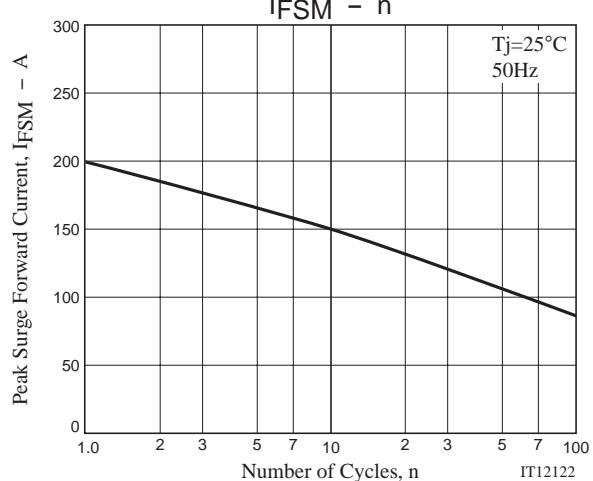
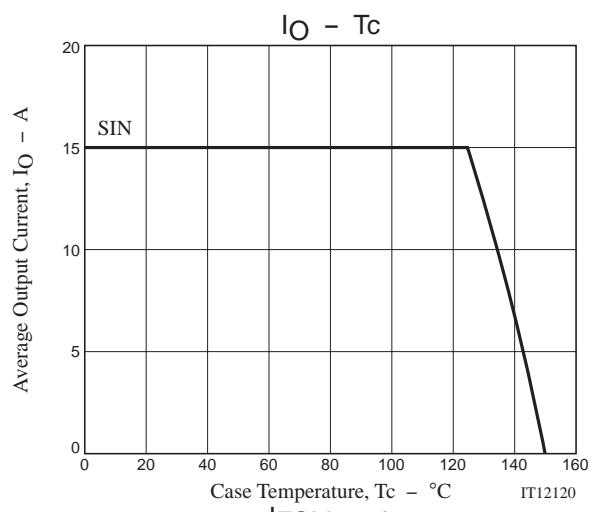
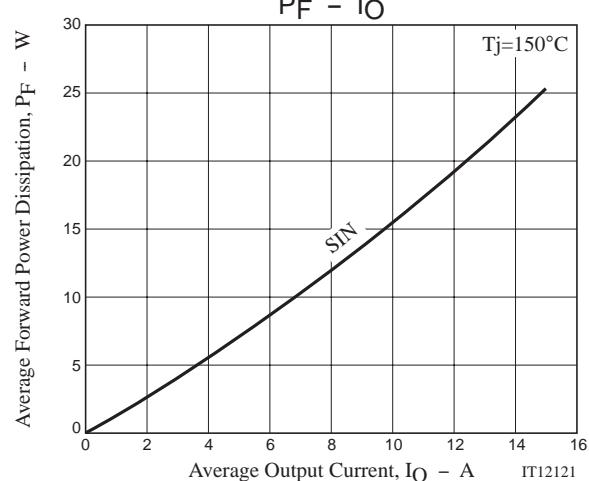
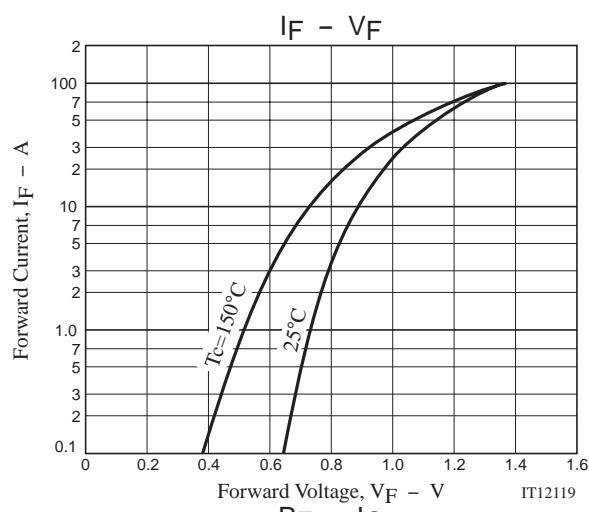
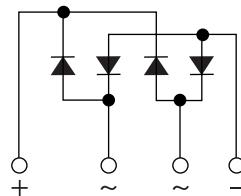
Package Dimensions

unit : mm (typ)

7804-001



Electrical Connection



DBG150G

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