



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 $T_a=25^\circ C$

Parameter	Symbol	Conditions	Ratings	Unit
Peak Reverse Voltage	V_{RM}		600	V
Average Output Current	I_O	$T_c=124^\circ C$, with heatsink	15	A
		$T_a=26^\circ C$, without heatsink	3.6	A
Surge Forward Current	I_{FSM}	50Hz sine 1cycle peak value	200	A
Junction Temperature	T_J		150	$^\circ C$
Storage Temperature	T_{stg}		-55 to +150	$^\circ C$
Dielectric Strength Voltage	V_{dis}	Terminals to case, AC 1 minute	2.5	kV
Tightening Torque	TOR	(): recommended value	0.8(0.5)	N•m

Electrical Characteristics at $T_a=25^\circ C$ Per Constituent element of bridge.

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Forward Voltage	V_F	$I_F=7.5A$			0.9	V
Reverse Current	I_R	$V_R=600V$			10	μA
Thermal Resistance(Junction-Ambient)	$R_{th(j-a)}$	Without heatsink			25	$^\circ C / W$
Thermal Resistance(Junction-Case)	$R_{th(j-c)}$	With heatsink			1	$^\circ C / W$
Thermal Resistance(Junction-Lead)	$R_{th(j-l)}$	Without heatsink			5	$^\circ C / W$

Marking: BG150G

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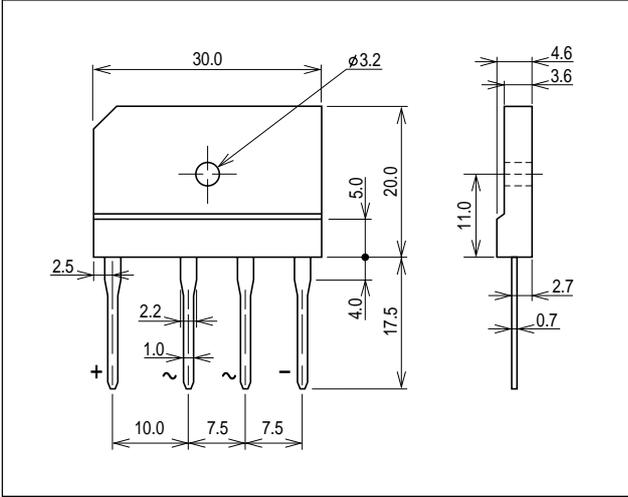
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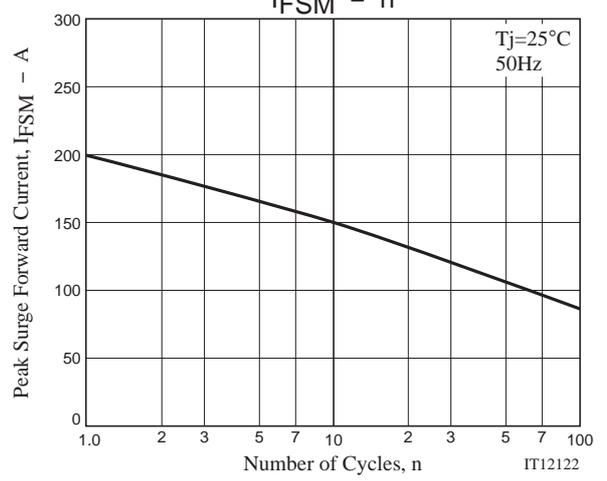
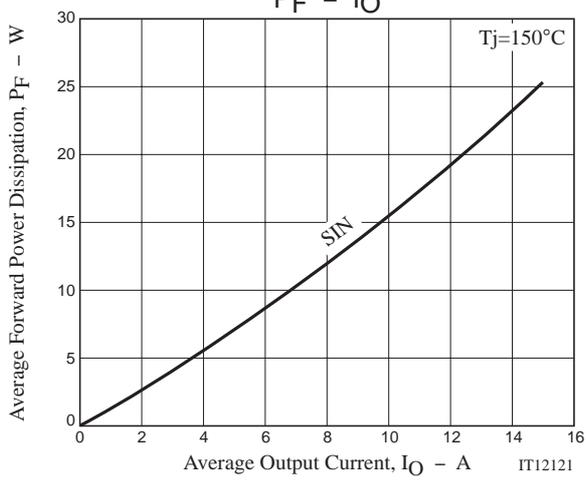
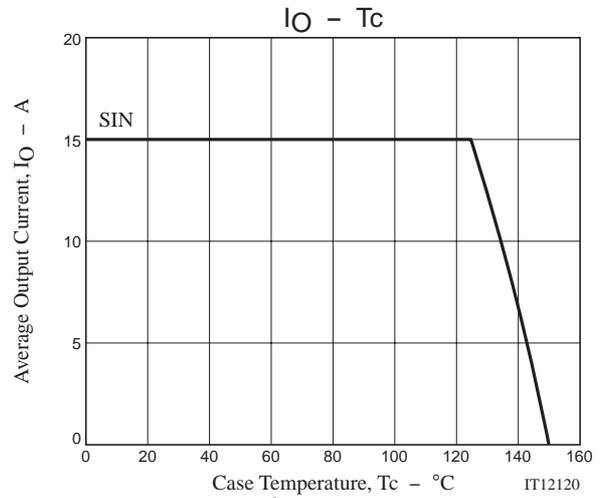
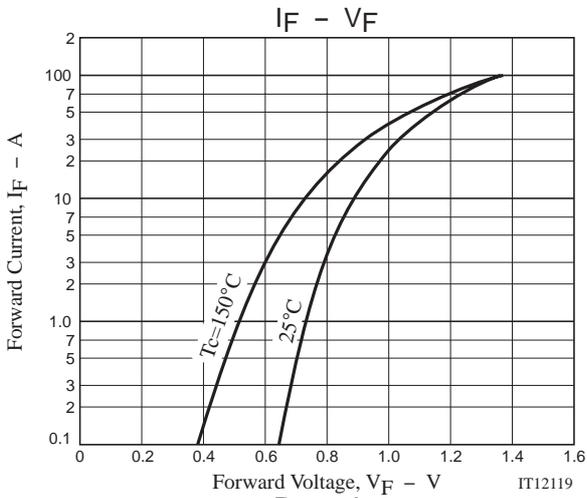
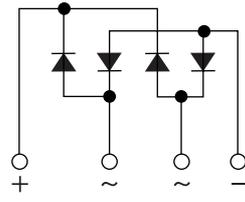
Package Dimensions

unit : mm (typ)

7804-001



Electrical Connection



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