

DBG250G — Diffused Junction S

Diffused Junction Silicon Diode 25A Single-Phase Bridge Rectifier

Features

- Glass passivation for high reliability.
- · Plastic molded structure.
- Peak reverse voltage : VRM=600V.
- Average output current : IO=25A.

Specifications

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Peak Reverse Voltage	VRM		600	V
Average Output Current	1-	Tc=113°C, with heatsink	25	А
	IO	Ta=25°C, without heatsink	3.6	А
Surge Forward Current	IFSM	50Hz sine 1cycle peak value	300	А
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.

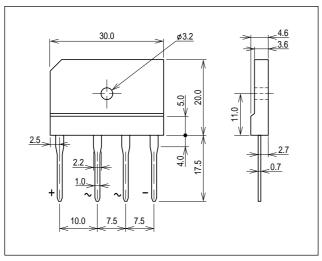
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Forward Voltage	VF	IF=12.5A			0.92	V
Reverse Current	IR	V _R =600V			10	μΑ
Thremal Resistance(Junction-Ambient)	Rth(j-a)	Without heatsink			25	°C / W
Thremal Resistance(Junction-Case)	Rth(j-c)	With heatsink			0.8	°C / W
Thremal Resistance(Junction-Lead)	Rth(j-l)	Without heatsink			5	°C / W

Marking: BG250G

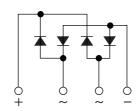
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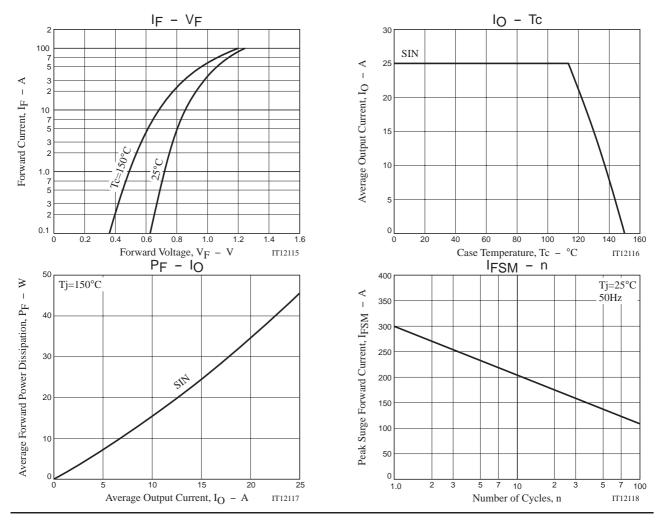
Package Dimensions

unit : mm (typ) 7807-001



Electrical Connection





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