

SANYO Semiconductors DATA SHEET

DBA500G

Diffused Junction Silicon Diode 50A Single-Phase Bridge Rectifier

Features

- Plastic molded structure.
- Peak reverse voltage : V_{RM}=600V.
- Average output current : IO=50A.

Specifications

Absolute Maximum Ratings at Tc=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Peak Reverse Voltage	VRM		600	V
Average Output Current	IO	50Hz sine 1cycle peak value, Tc=95°C, with heatsink	50	А
Surge Forward Current	IFSM	50Hz sine wave, non-repetitive, 1cycle peak value, Tj=25°C	500	А
Current Squared Time	l²t	1ms≤t<10ms, Tj=25°C, Rating of per diode	800	A ² s
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-40 to +150	°C
Dilective Strength Voltage	Vdis	Terminals tc case, AC 1 minute	2	kV
Tightening Torque	TOR	(): recommended value	0.8(0.6)	N•m

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

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Unit
Forward Voltage	VF	IF=25A			1.05	V
Reverse Current	IR	VR=600V			10	μΑ
Thremal Resistance	Rth(j-c)	With heatsink (Junction-Case)			0.5	°C / W

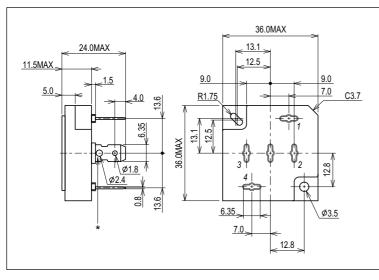
Marking: BA500G

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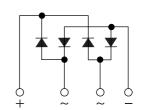
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Package Dimensions

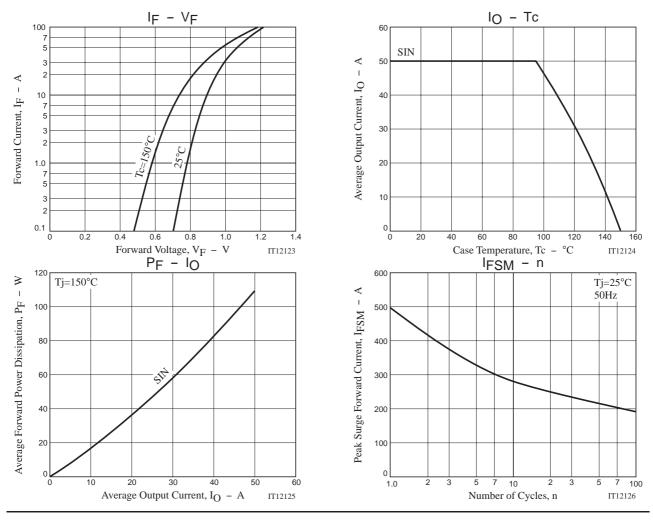
unit : mm (typ) 7806-001



Electrical Connection



* : In case of over 30A of IO. bigger fasten hole should be filled by solder. Lead-Wire with solder connection also requested for over 30A of IO.



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