Ordering number : ENA0699A

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 : I_O=50A

Specifications

Absolute Maximum Ratings at Tc=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Peak Reverse Voltage	V_{RM}		600	V
Average Output Current	I_O	50Hz sine 1cycle peak value, Tc=95°C, with heatsink	50	A
Surge Forward Current	I_{FSM}	50Hz sine wave, non-repetitive, 1cycle peak value, Tj=25°C	500	A
Current Squared Time	I^2t	1ms≤t<10ms, Tj=25°C, Rating of per diode	800	A^2s
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	
Forward Voltage	V_F	I_F=25A			1.05	V
Reverse Current	I_R	V_R=600V			10	μA
Thremal Resistance	Rth(j-c)	With heatsink (Junction-Case)			0.5	°C / W

Marking: BA500G

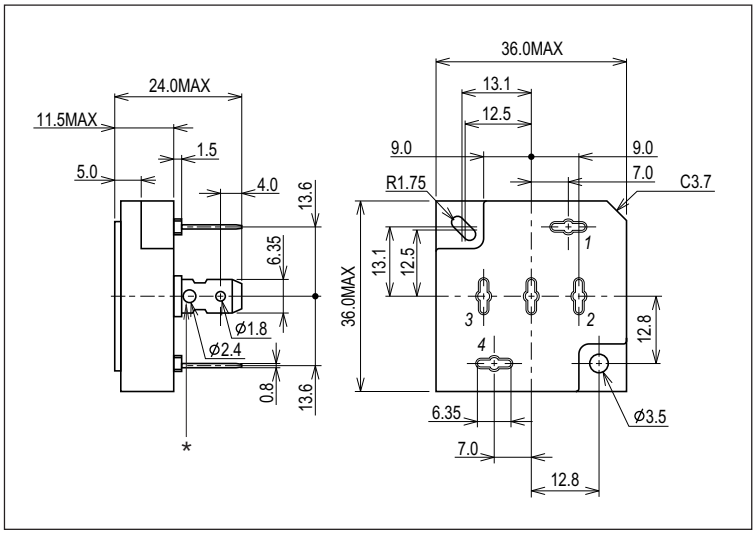
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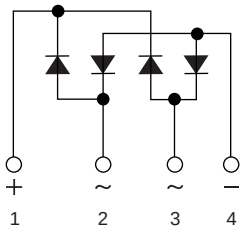
Package Dimensions

unit : mm (typ)

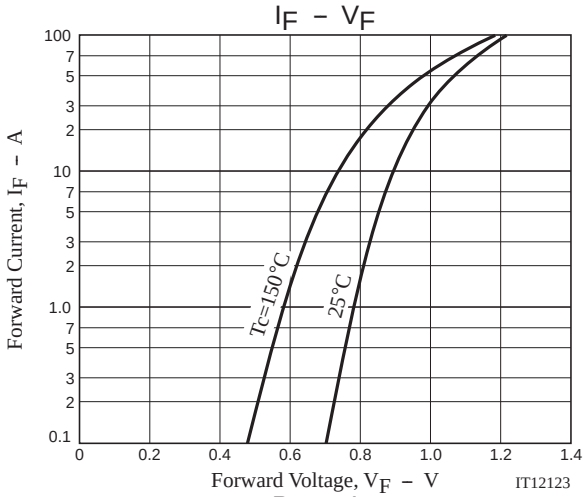
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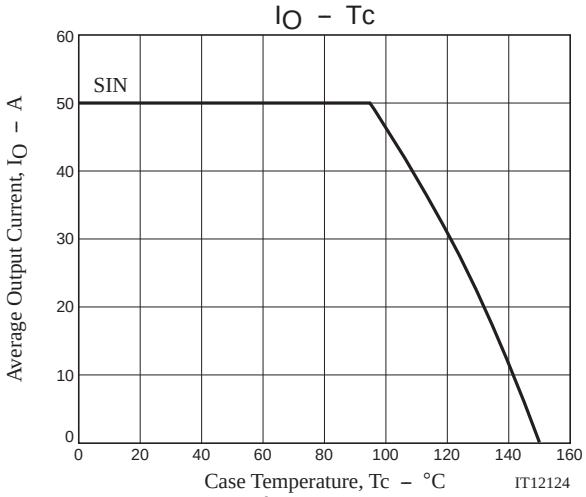


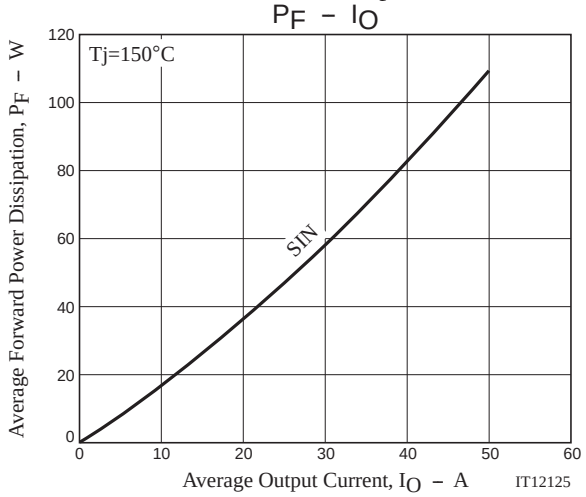
Electrical Connection

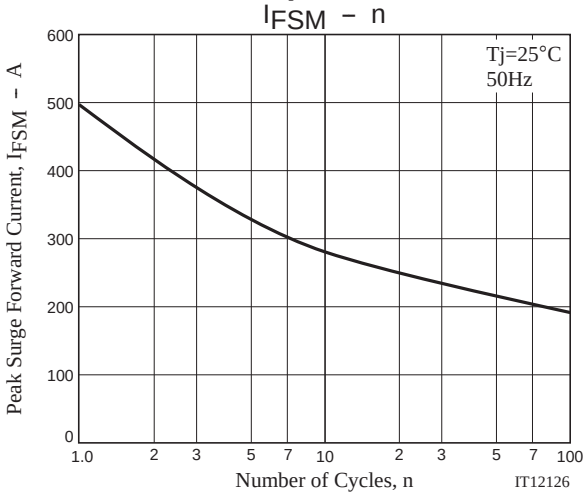


* : In case of over 30A of I_O. bigger fasten hole should be filled by solder.
Lead-Wire with solder connection also requested for over 30A of I_O.









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