imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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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	V _{RM}		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	
Forward Voltage	VF	IF=25A			1.05	V
Reverse Current	IR	V _R =600V			10	μΑ
Thremal Resistance	Rth(j-c)	With heatsink (Junction-Case)			0.5	°C / W

Marking: BA500G

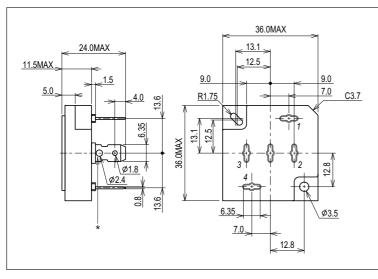
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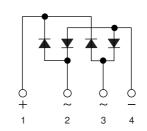
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Package Dimensions

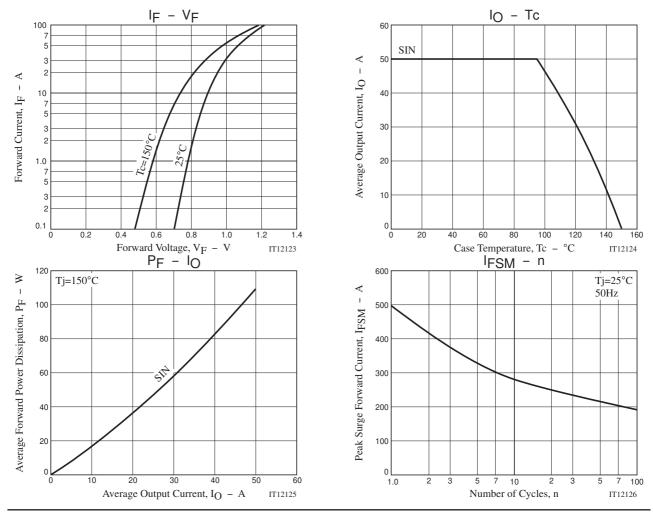
unit : mm (typ) 7806-001



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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