



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!



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**SANYO Semiconductors****DATA SHEET****DBD250** — Diffused Junction Silicon Diode
25.0A Single-Phase Bridge Rectifier**Features**

- Plastic molded structure.
- Glass passivation for high reliability.
- Peak reverse voltage : $V_{RM}=200V, 600V$.
- Average output current : $I_O=25.0A$.

Specifications**Absolute Maximum Ratings** at $T_c=25^\circ C$

Parameter	Symbol	Conditions	DBD250C	DBD250G	Unit
Peak Reverse Voltage	V_{RM}		200	600	V
Average Output Current	I_O	$T_a=40^\circ C$	6.0		A
		$T_a=40^\circ C$, With $300 \times 300 \times 3.0 \text{mm}^3$ Cu fin	25.0		A
Surge Forward Current	I_{FSM}	50Hz sine wave, 1cycle	400		A
Junction Temperature	T_j		150		$^\circ C$
Storage Temperature	T_{stg}		-40 to +150		$^\circ C$
Dielectric Strength Voltage	V_{IS}	Terminals to case, AC 1 minute	2		kV

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

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Forward Voltage	V_F	$I_F=12.5A^*$			1.05	V
Reverse Current	I_R	$V_R=At$ each V_{RM}^*			10	μA
Thermal Resistance	$R_{th(j-c)}$	Junction-Case			1.5	$^\circ C / W$

Note) Maximum tightening torque : 0.98Nm

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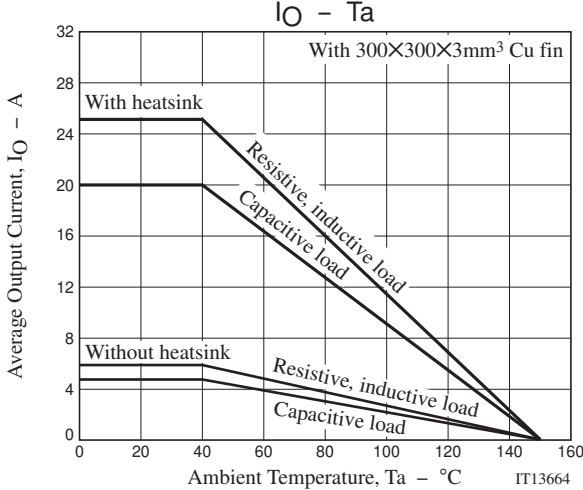
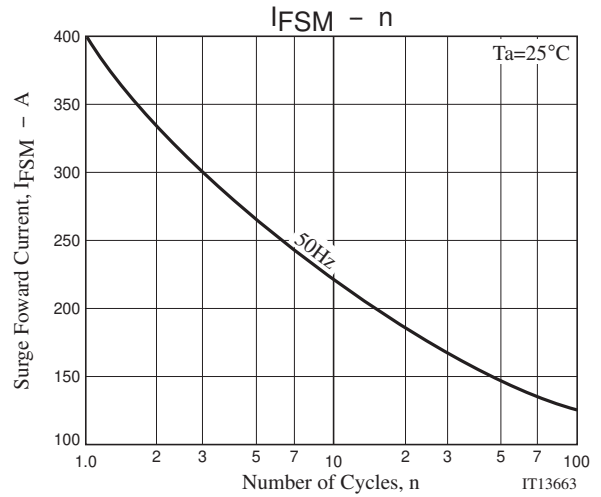
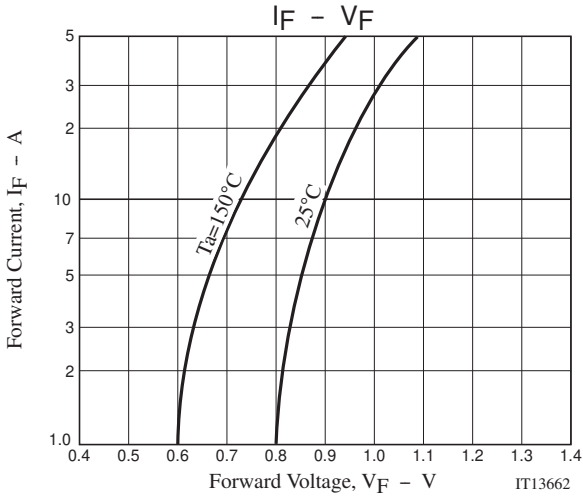
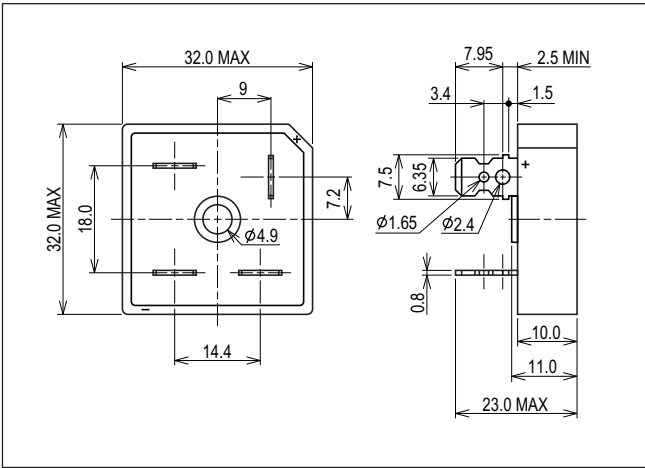
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Package Dimensions

unit : mm (typ)

7812-001



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