

Ordering number : ENN7030A

Diffused Junction Silicon Diode



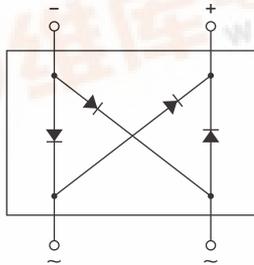
DBD10

1.0A Single-Phase Bridge Rectifier

Features

- Plastic molded structure.
- Peak reverse voltage : $V_{RM}=200V, 600V$.
- Average rectified current : $I_O=1.0A$.

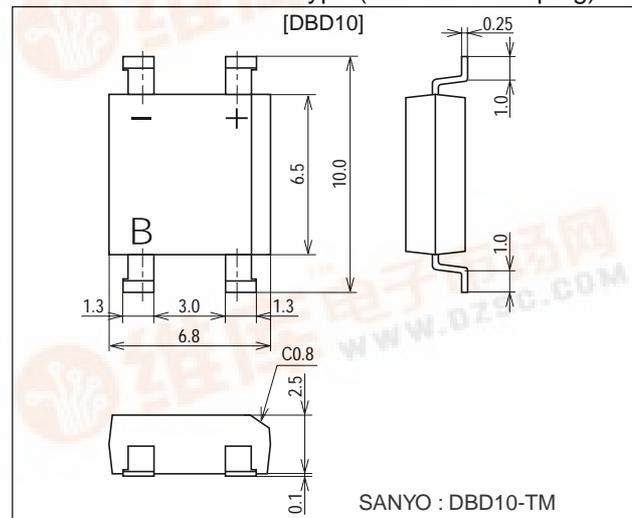
Electrical Connection



Package Dimensions

unit : mm

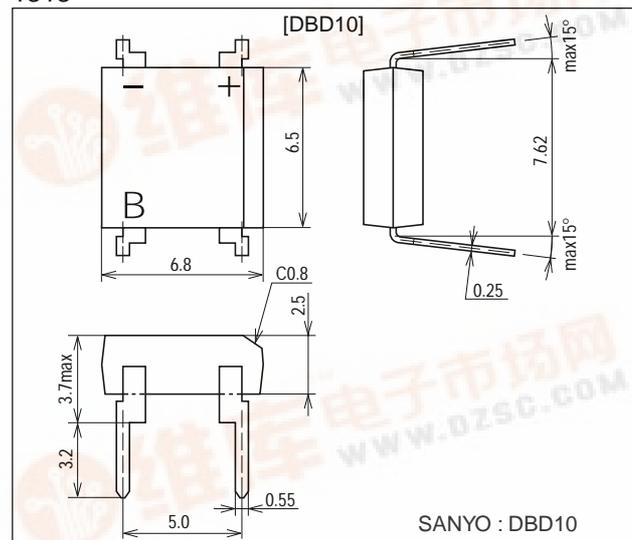
1314 Surface mount type (TM emboss taping)



Package Dimensions

unit : mm

1313



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DBD10

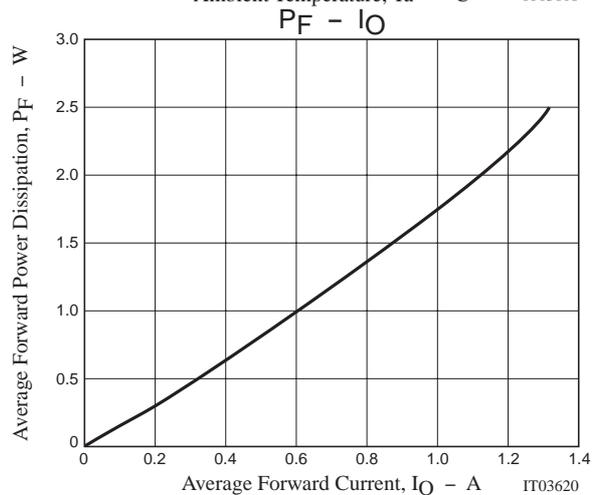
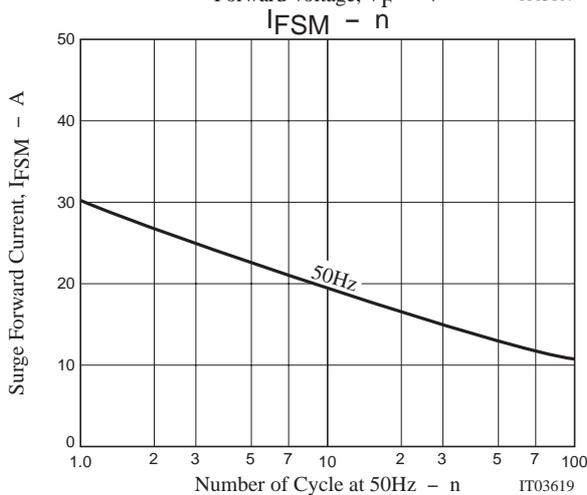
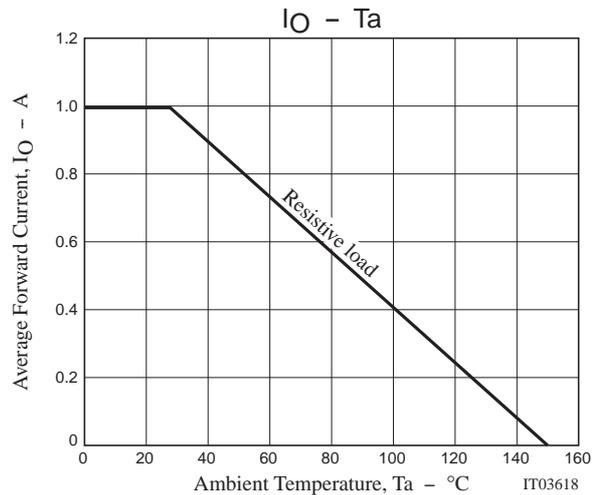
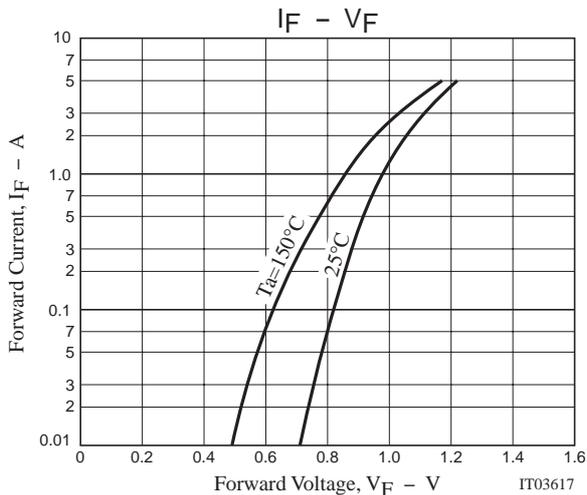
Specifications

Absolute Maximum Ratings at $T_a=25^\circ\text{C}$

Parameter	Symbol	Conditions	Ratings		Unit
			DBD10C	DBD10G	
Peak Reverse Voltage	V_{RM}		200	600	V
Average Rectified Current	I_O	$T_a=25^\circ\text{C}$	→	1.0	A
Surge Forward Current	I_{FSM}	50Hz sine wave 1cycle	→	30	A
Junction Temperature	T_J		→	150	$^\circ\text{C}$
Storage Temperature	T_{stg}		→	-40 to +150	$^\circ\text{C}$

Electrical Characteristics at $T_a=25^\circ\text{C}$

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Forward Voltage	V_F	$I_F=0.5\text{A}$			1.05	V
Reverse Current	I_R	V_R : At each V_{RM}			10	μA
Thermal Resistance	$R_{th(j-l)}$	Junction-Lead			15	$^\circ\text{C}/\text{W}$
Thermal Resistance	$R_{th(j-a)}$	Junction-Ambient			68	$^\circ\text{C}/\text{W}$



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