Ordering number : ENN7030A

Diffused Junction Silicon Diode

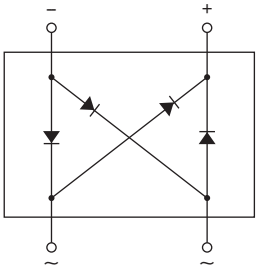
DBD10

1.0A Single-Phase Bridge Rectifier

Features

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

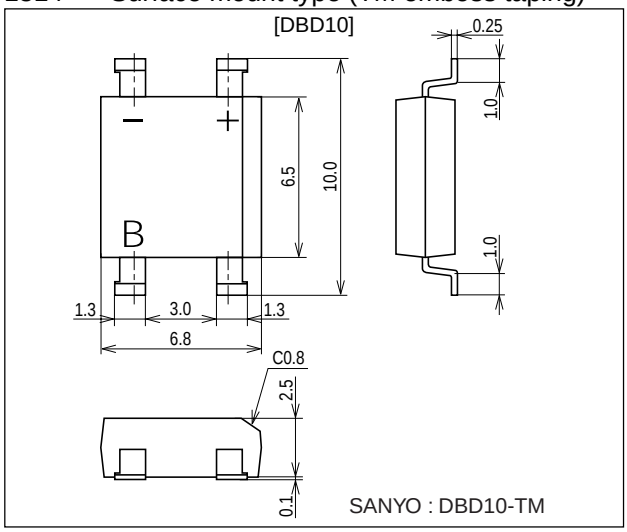
Electrical Connection



Package Dimensions

unit : mm

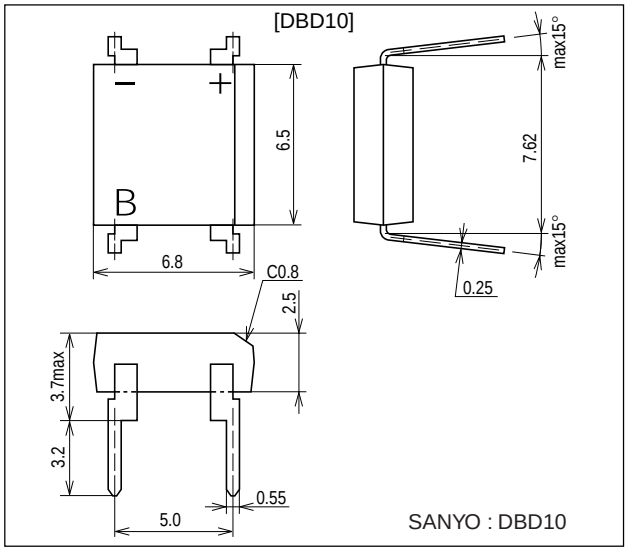
1314 Surface mount type (TM emboss taping)



Package Dimensions

unit : mm

1313



SANYO Electric Co.,Ltd. Semiconductor Company

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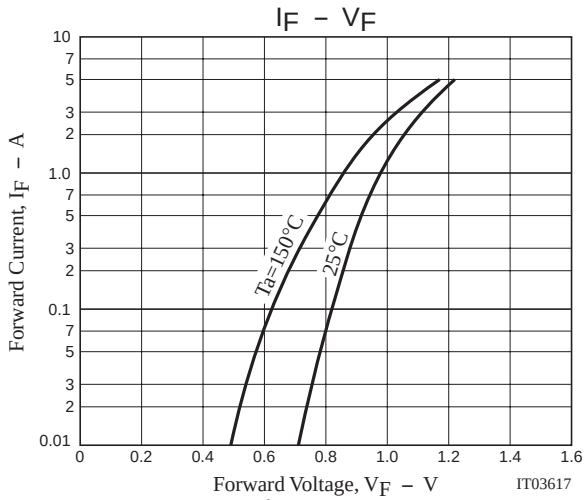
Specifications

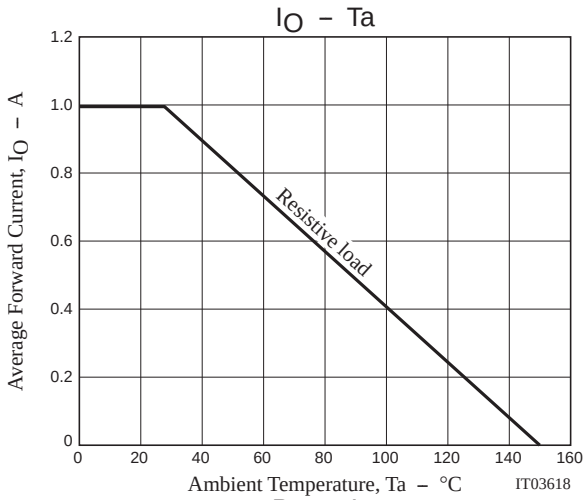
Absolute Maximum Ratings at Ta=25°C

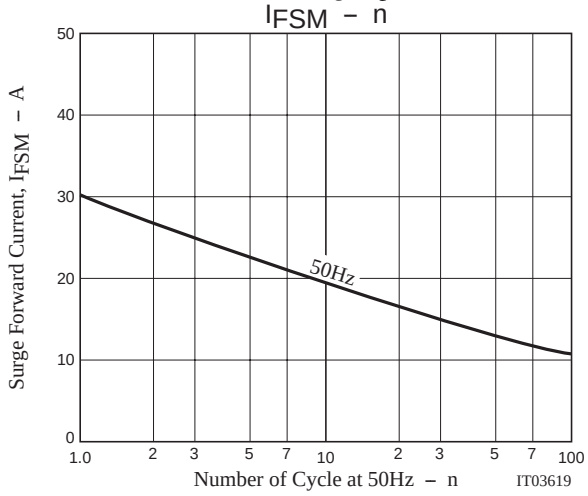
Parameter	Symbol	Conditions	Ratings		Unit
			DBD10C	DBD10G	
Peak Reverse Voltage	V_{RM}		200	600	V
Average Rectified Current	I_O	Ta=25°C	→	1.0	A
Surge Forward Current	I_{FSM}	50Hz sine wave 1cycle	→	30	A
Junction Temperature	Tj		→	150	°C
Storage Temperature	Tstg		→	–40 to +150	°C

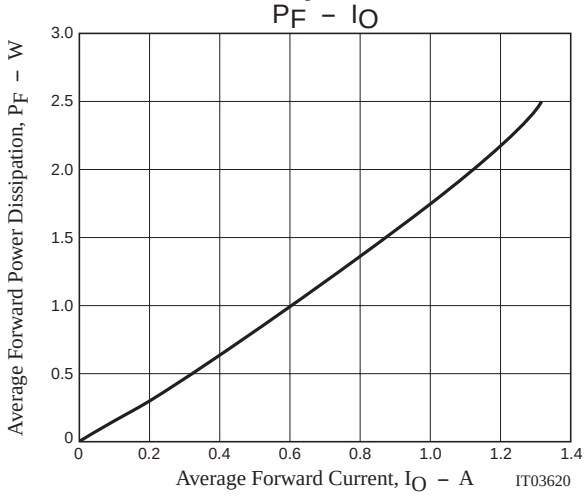
Electrical Characteristics at Ta=25°C

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









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