

**DBC10**

Silicon Diffused Junction Type

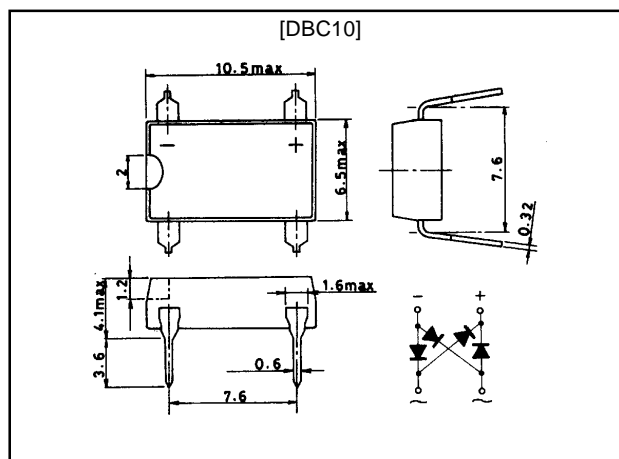
1A Single-Phase Bridge Rectifier**Features**

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

Package Dimensions

unit:mm

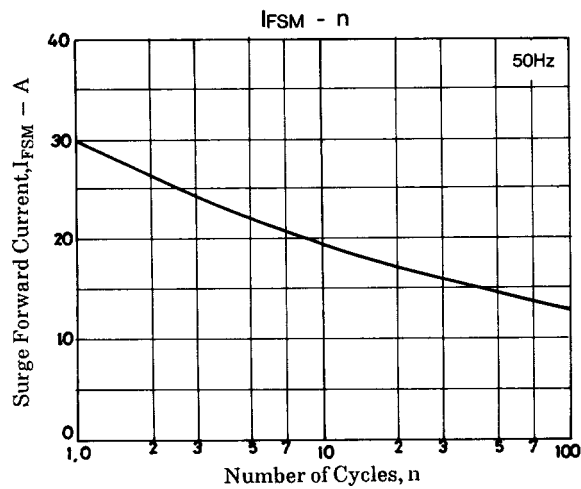
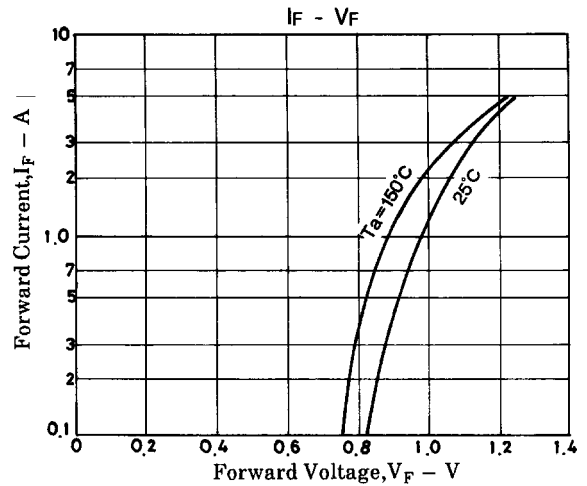
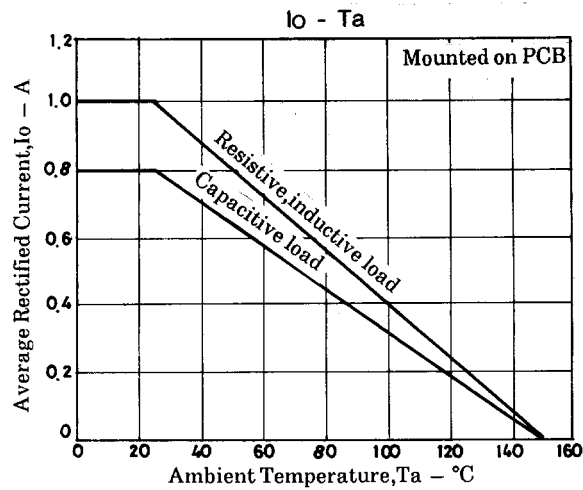
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**Specifications****Absolute Maximum Ratings at $T_a = 25^\circ C$**

Parameter	Symbol	Conditions	DBC10C	DBC10E	DBC10G	Unit
Peak Reverse Voltage	V_{RM}		200	400	600	V
Average Rectified Current	I_O	50Hz sine wave, load resistor	→	→	1.0	A
Surge Forward Current	I_{FSM}	50Hz sine wave, non-repetitive, 1 cycle peak value	→	→	30	A
Junction Temperature	T_J		→	→	150	$^\circ C$
Storage Temperature	T_{stg}		→	→	-40 to +150	$^\circ C$

Electrical Characteristics at $T_a = 25^\circ C$, per constituent element of bridge

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Forward Voltage	V_F	$I_F=0.5A$			1.0	V
Reverse Current	I_R	$V_R:V_{RM}$			10	μA
Thermal Resistance	θ_{j1}	Junction-lead			10	$^\circ C/W$



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