

**DBF10**

Silicon Diffused Junction Type

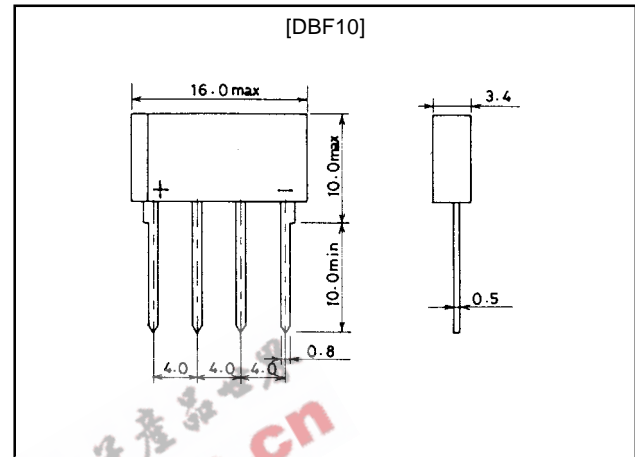
1.0A Single-Phase Bridge Rectifier**Features**

- Plastic molded structure.
- Peak reverse voltage: $V_{RM}=100$ to $600V$.
- Average rectified current: $I_O=1.0A$.

Package Dimensions

unit:mm

1210

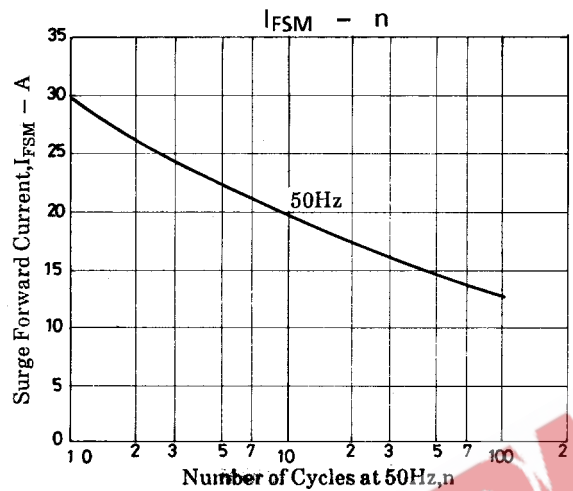
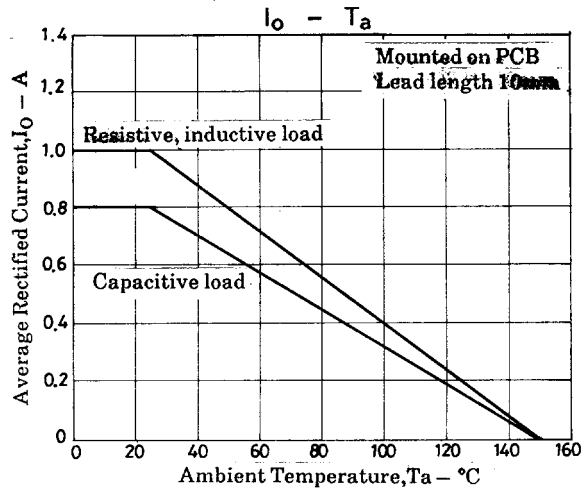
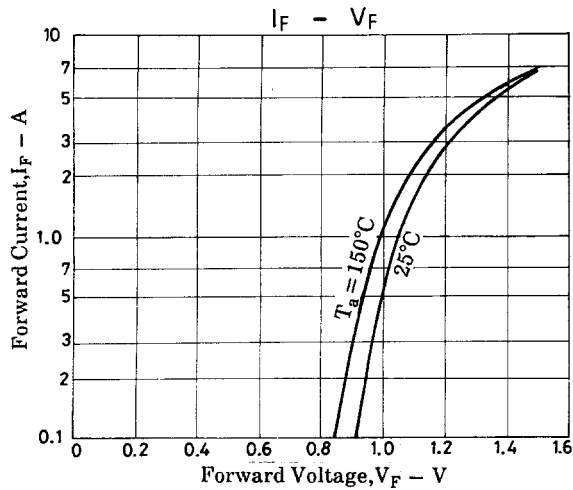
**Specifications****Absolute Maximum Ratings at $T_a = 25^\circ C$**

| Parameter | Symbol | Conditions | DBF10B | DBF10C | DBF10E | DBF10G | Unit |
|---------------------------|-----------|---|--------|--------|--------|-------------|------------|
| | | | | | | | |
| Peak Reverse Voltage | V_{RM} | | 100 | 200 | 400 | 600 | V |
| Average Rectified Current | I_O | 50Hz sine wave, resistive load, mounted on PCB | → | → | → | 1.0 | A |
| Surge Forward Current | I_{FSM} | 50Hz sine wave, nonrepetitive, 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 $T_a = 25^\circ C$

| Parameter | Symbol | Conditions | Ratings | | | Unit |
|--------------------|---------------|------------------|---------|-----|------|--------------|
| | | | min | typ | max | |
| Forward Voltage | V_F | $I_F=0.5A$ | | | 1.05 | V |
| Reverse Current | I_R | $V_R=V_{RM}$ | | | 10 | μA |
| Thermal Resistance | θ_{ji} | Junction-lead | | | 16 | $^\circ C/W$ |
| | θ_{ja} | Junction-ambient | | | 62 | $^\circ C/W$ |

DBF10



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