

**DBA40**

Diffused Junction Silicon Diode

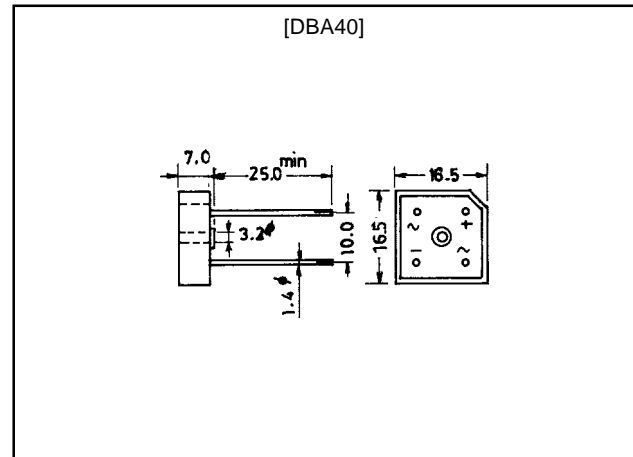
**4.0A Single-Phase Bridge Rectifier****Features**

- Plastic molded structure.
- Glass passivation for high reliability.
- Peak reverse voltage: $V_{RM}=100$  to  $400V$ .
- Average rectified current: $I_O=4.0A$ .

**Package Dimensions**

unit:mm

1089

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

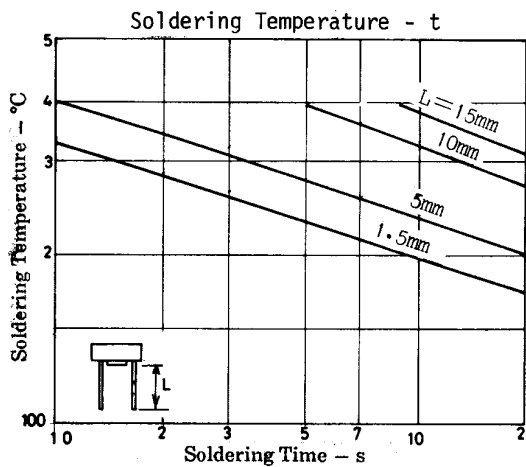
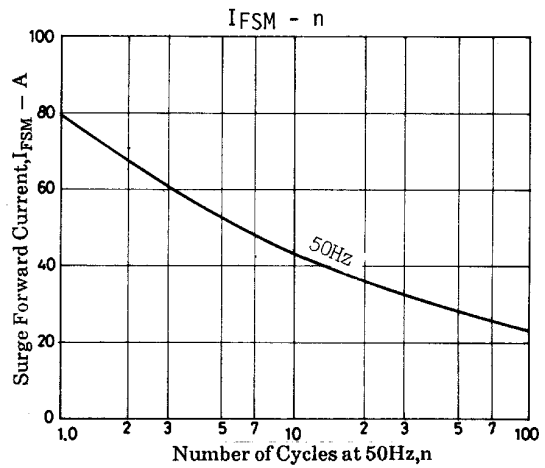
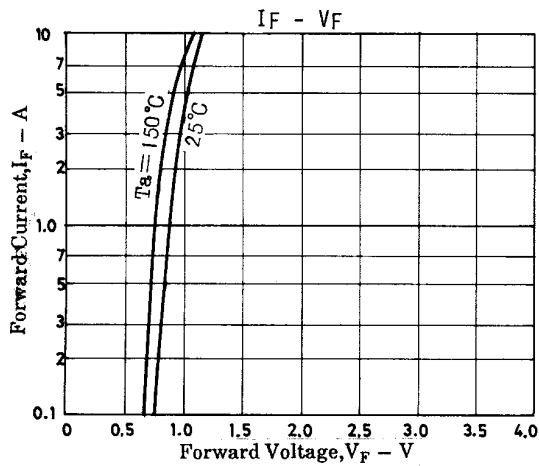
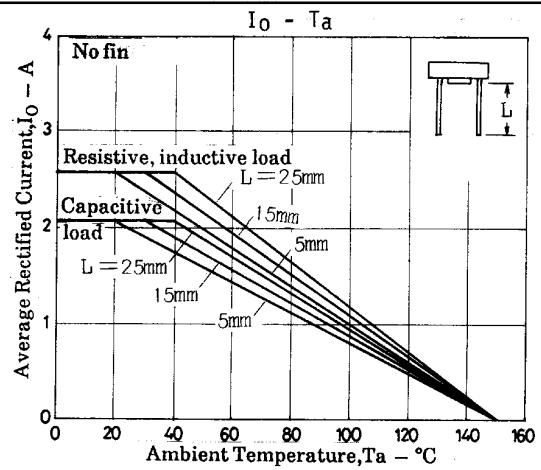
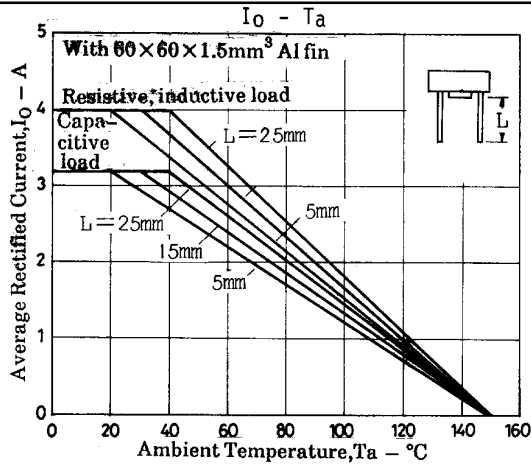
Parameter	Symbol	Conditions	DBA40B	DBA40C	DBA40E	Unit
Peak Reverse Voltage	$V_{RM}$		100	200	400	V
Average Rectified Current	$I_O$	$T_a=40^\circ C$	→	→	2.6	A
		$T_a=40^\circ C$ , mounted on $60 \times 60 \times 1.5 mm^3$ Al fin	→	→	4.0	A
Surge Forward Current	$I_{FSM}$	50Hz sine wave, 1cycle	→	→	80	A
Junction Temperature	$T_J$		→	→	150	$^\circ C$
Storage Temperature	$T_{stg}$		→	→	-30 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	$V_F$	$I_F=2.0A$			1.05	V
Reverse Current	$I_R$	$V_R$ :At each $V_{RM}$			10	$\mu A$

Note:Mounted torque:0.49N·m max.

# DBA40



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