



# BRIDGE RECTIFIER

## DB201 - DB207

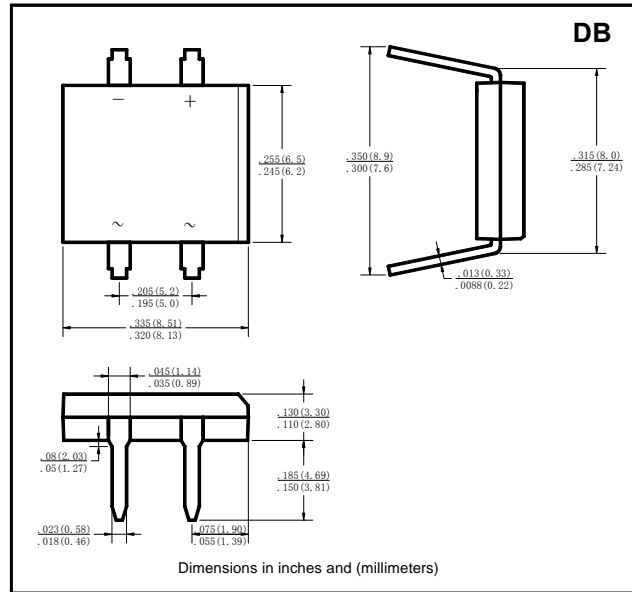
### FEATURES

- $I_o$  2A
- $V_{RRM}$  50V~1000V
- Glass passivated chip
- High surge forward current capability

### APPLICATIONS

- General purpose 1 phase Bridge rectifier applications

### Outline Dimensions and Mark



### ABSOLUTE MAXIMUM RATING

Item	Symbol	Unit	Conditions	DB2						
				01	02	03	04	05	06	07
Repetitive Peak Reverse Voltage	$V_{RRM}$	V		50	100	200	400	600	800	1000
Average Rectified Output Current	$I_o$	A	60Hz, $T_a=25^\circ\text{C}$ 60Hz sine wave, R-load, $T_a=25^\circ\text{C}$	2.0						
Surge(Non-Repetitive)Forward Current	$I_{FSM}$	A	60Hz, $T_j=25^\circ\text{C}$ 60Hz sine wave, 1 cycle, $T_j=25^\circ\text{C}$	60						
Current Squared Time	$I^2t$	$\text{A}^2\text{S}$	$1\text{ms} \leq t < 8.3\text{ms}$ $T_j=25^\circ\text{C}$ , $1\text{ms} \leq t < 8.3\text{ms}$ $T_j=25^\circ\text{C}$ , Rating of per diode	15						
Storage Temperature	$T_{stg}$	$^\circ\text{C}$		-55 ~ +150						
Junction Temperature	$T_j$	$^\circ\text{C}$		-55 ~ +150						

### ELECTRICAL CHARACTERISTICS (TA=25 °C)

Item	Symbol	Unit	Test Condition	Max
Peak Forward Voltage	$V_{FM}$	V	$I_{FM}=2.0\text{A}$ , $I_{FM}=2.0\text{A}$ , Pulse measurement, Rating of per diode	1.1
Peak Reverse Current	$I_{RRM}$	$\mu\text{A}$	$V_{RM}=V_{RRM}$ , $V_{RM}=V_{RRM}$ , Pulse measurement, Rating of per diode	10
Thermal Resistance	$R_{\theta J-A}$	$^\circ\text{C/W}$	Between junction and ambient, On glass-epoxy substrate	68
	$R_{\theta J-L}$		Between junction and lead	15

**DB201 - DB207**

**CHARACTERISTICS (TYPICAL)**

FIG1:  $I_o$ - $T_a$  Curve

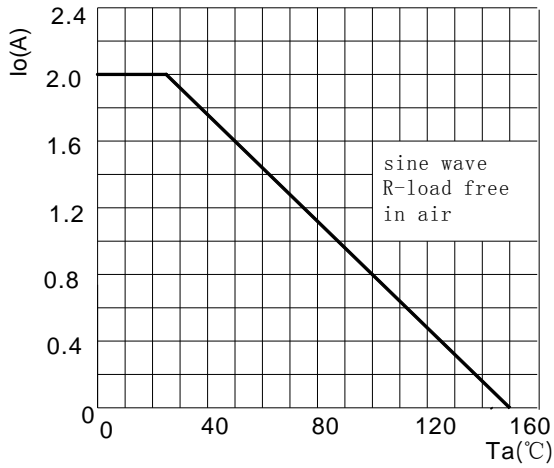


FIG2: Surge Forward Current Capability

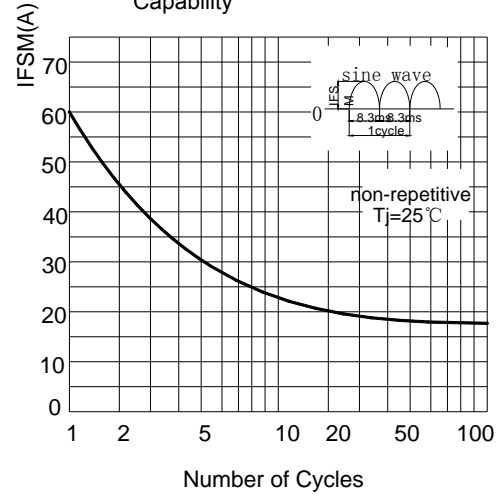


FIG3: Forward Voltage

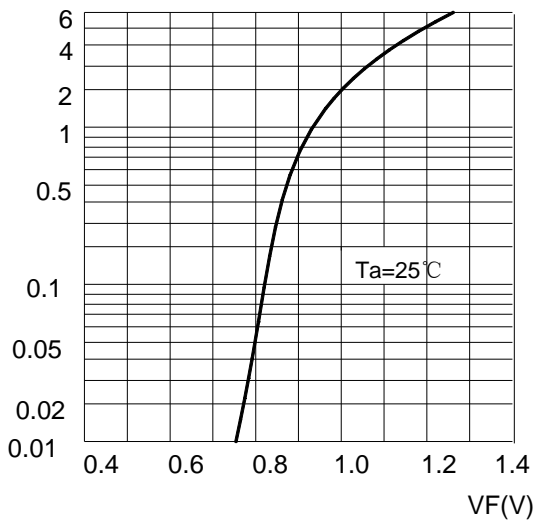


FIG4: Typical Reverse Characteristics

