

# Silicon Bridge Rectifier

 $V_{RRM} = 50\text{ V} - 1000\text{ V}$ 
 $I_F = 4\text{ A}$ 

## Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Types up to 1000 V  $V_{RRM}$
- Ideal for printed circuit board
- High surge current capability
- High temperature soldering guaranteed: 250°C/ 10 seconds, 0.375(9.5mm) lead length
- Glass passivated chip junction
- High case dielectric strength

## GBL Package



## Mechanical Data

Case: Molded plastic body over passivated junctions

Weight: 0.071 oz, 2 g

Mounting position: Any

Terminals: Plated leads, solderable per MIL-STD-750

Method 2026 guaranteed

## Maximum ratings, at $T_j = 25\text{ }^\circ\text{C}$ , unless otherwise specified

Parameter	Symbol	Conditions	GBL06	GBL08	GBL10	Unit
Repetitive peak reverse voltage	$V_{RRM}$		600	800	1000	V
RMS reverse voltage	$V_{RMS}$		420	560	700	V
DC blocking voltage	$V_{DC}$		600	800	1000	V
Continuous forward current	$I_F$	$T_C \leq 25\text{ }^\circ\text{C}$	4	4	4	A
Surge non-repetitive forward current, Half Sine Wave	$I_{F,SM}$	$T_C = 25\text{ }^\circ\text{C}$ , $t_p = 8.3\text{ ms}$	150	150	150	A
Operating temperature	$T_j$		-55 to 150	-55 to 150	-55 to 150	$^\circ\text{C}$
Storage temperature	$T_{stg}$		-55 to 150	-55 to 150	-55 to 150	$^\circ\text{C}$

## Electrical characteristics, at $T_j = 25\text{ }^\circ\text{C}$ , unless otherwise specified

Parameter	Symbol	Conditions	GBL06	GBL08	GBL10	Unit
Diode forward voltage	$V_F$	$I_F = 4\text{ A}$ , $T_j = 25\text{ }^\circ\text{C}$	1.1	1.1	1.1	V
Reverse current	$I_R$	$V_R = 50\text{ V}$ , $T_j = 25\text{ }^\circ\text{C}$ $V_R = 50\text{ V}$ , $T_j = 125\text{ }^\circ\text{C}$	5 500	5 500	5 500	$\mu\text{A}$

## Thermal characteristics

Parameter	Symbol	Conditions	GBL06	GBL08	GBL10	Unit
Thermal resistance, junction - case	$R_{thJA}$ $R_{thJL}$		22.0 3.5	22.0 3.5	22.0 3.5	$^\circ\text{C/W}$

