

Silicon Bridge Rectifier

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

$I_F = 1.5 \text{ A}$

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 $T_j = 25^\circ\text{C}$, unless otherwise specified

Parameter	Symbol	Conditions	G2SBA005	G2SBA01	G2SBA02	G2SBA04	Unit
Repetitive peak reverse voltage	V_{RRM}		50	100	200	400	V
RMS reverse voltage	V_{RMS}		35	70	140	280	V
DC blocking voltage	V_{DC}		50	100	200	400	V
Continuous forward current	I_F	$T_C \leq 25^\circ\text{C}$	1.5	1.5	1.5	1.5	A
Surge non-repetitive forward current, Half Sine Wave	$I_{F,SM}$	$T_C = 25^\circ\text{C}$, $t_p = 8.3 \text{ ms}$	60	60	60	60	A
Operating temperature	T_j		-55 to 150	-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	-55 to 150	$^\circ\text{C}$

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

Parameter	Symbol	Conditions	G2SBA005	G2SBA01	G2SBA02	G2SBA04	Unit
Diode forward voltage	V_F	$I_F = 0.75 \text{ A}$, $T_j = 25^\circ\text{C}$	1.05	1.05	1.05	1.05	V
Reverse current	I_R	$V_R = 50 \text{ V}$, $T_j = 25^\circ\text{C}$	5	5	5	5	μA
		$V_R = 50 \text{ V}$, $T_j = 125^\circ\text{C}$	500	500	500	500	

Thermal characteristics

Thermal resistance, junction - case	R_{thJA}	40.0	40.0	40.0	40.0	$^\circ\text{C/W}$
	R_{thJL}	12.0	12.0	12.0	12.0	

