



America Semiconductor

Silicon Bridge Rectifier

G2SB005 thru G2SB04

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

$I_F = 2\text{ A}$

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-
- 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

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

GBL Package



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

Parameter	Symbol	Conditions	G2SB005	G2SB01	G2SB02	G2SB04	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	$T_C \leq 25\text{ °C}$	2	2	2	2	A
Surge non-repetitive forward current, Half Sine Wave	$I_{F,SM}$	$T_C = 25\text{ °C}$, $t_p = 8.3\text{ ms}$	80	80	80	80	A
Operating temperature	T_j		-55 to 150	-55 to 150	-55 to 150	-55 to 150	°C
Storage temperature	T_{stg}		-55 to 150	-55 to 150	-55 to 150	-55 to 150	°C

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

Parameter	Symbol	Conditions	G2SB005	G2SB01	G2SB02	G2SB04	Unit
Diode forward voltage	V_F	$I_F = 1\text{ A}$, $T_j = 25\text{ °C}$	1.05	1.05	1.05	1.05	V
Reverse current	I_R	$V_R = 50\text{ V}$, $T_j = 25\text{ °C}$ $V_R = 50\text{ V}$, $T_j = 125\text{ °C}$	5 500	5 500	5 500	5 500	μA

Thermal characteristics

Parameter	Symbol	Conditions	G2SB005	G2SB01	G2SB02	G2SB04	Unit
Thermal resistance, junction - case	R_{thJA}		40.0	40.0	40.0	40.0	°C/W
	R_{thJL}		12.0	12.0	12.0	12.0	





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