

Silicon Bridge Rectifier

$V_{RRM} = 50 \text{ V} - 1000 \text{ V}$
 $I_F = 10 \text{ A}$

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Types up to 1000 V V_{RRM}
- Ideal for printed circuit board
- High surge overload rating
- High temperature soldering guaranteed: 260°C/ 10 seconds, 0.375(9.5mm) lead length
- Glass passivated chip junction
- High case dielectric strength 1500 V_{RMS}

GBU Package



Mechanical Data

Case: Molded plastic body over passivated junctions

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	GBU10A	GBU10B	GBU10D	GBU10G	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	$T_C \leq 100^\circ\text{C}$	10	10	10	10	A
Surge non-repetitive forward current, Half Sine Wave	$I_{F,SM}$	$T_C = 25^\circ\text{C}$, $t_p = 8.3 \text{ ms}$	220	220	220	220	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 $T_j = 25^\circ\text{C}$, unless otherwise specified

Parameter	Symbol	Conditions	GBU10A	GBU10B	GBU10D	GBU10G	Unit
Diode forward voltage	V_F	$I_F = 10 \text{ A}$, $T_j = 25^\circ\text{C}$	1.1	1.1	1.1	1.1	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_{thJC}		2.2	2.2	2.2	2.2	°C/W
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