



Inline bridge

## Silicon-Bridge Rectifiers

### GBI 10A ... GBI 10M

Forward Current: 10 A

Reverse Voltage: 50 to 1000 V

Publish Data

### Features

- max. solder temperature 260°C, max. 5s
- UL recognized, file no. E63532
- Standard packaging: bulk

### Mechanical Data

- Plastic case 32 \* 5,6 \* 17 [mm]
- Weight approx. 7g
- Terminals: plated terminals solderable per IEC 68-2-20
- Mounting position : any
- Marking : Type number

Type	Alternating input voltage $V_{RMS}$ V	Repetitive peak reverse voltage $V_{RRM}$ V
GBI 10A	35	50
GBI 10B	70	100
GBI 10D	140	200
GBI 10G	280	400
GBI 10J	420	600
GBI 10K	560	800
GBI 10M	700	1000

Absolute Maximum Ratings <span style="float: right;"><math>T_c = 25^\circ\text{C}</math> unless otherwise specified</span>			
Symbol	Conditions	Values	Units
$I_{FRM}$	Repetitive peak forward current; $f > 15\text{ Hz}^{1)}$	40	A
$I^2t$	Rating for fusing, $t < 10\text{ ms}$	200	A <sup>2</sup> s
$I_{FSM}$	Peak forward surge current, 50 Hz half sine-wave $T_A = 25^\circ\text{C}$	200	A
$I_{FAV}$	Max. averaged fwd. current, R-load, $T_A = 50^\circ\text{C}^{1)}$	3,0	A
$I_{FAV}$	Max. averaged fwd. current, C-load, $T_A = 50^\circ\text{C}^{1)}$	2,2	A
$I_{FAV}$	Max. current with cooling fin, R-load, $T_c = 100^\circ\text{C}^{2)}$	10	A
$I_{FAV}$	Max. current with cooling fin, C-load, $T_c = 100^\circ\text{C}^{2)}$	8	A
$R_{thA}$	Thermal resistance junction to ambient <sup>1)</sup>	25	K/W
$R_{thC}$	Thermal resistance junction to case <sup>1)</sup>	3	K/W
$T_j$	Operating junction temperature	- 50 ... + 150	°C
$T_s$	Storage temperature	- 50 ... + 150	°C

Characteristics <span style="float: right;"><math>T_c = 25^\circ\text{C}</math> unless otherwise specified</span>			
Symbol	Conditions	Values	Units
$V_F$	Maximum forward. voltage, $T_j = 25^\circ\text{C}$ ; $I_F = 5\text{ A}$	1,05	V
$I_R$	Maximum Leakage current, $T_j = 25^\circ\text{C}$ ; $V_R = V_{RRM}$	10	$\mu\text{A}$
$C_j$	Typical junction capacitance per leg at V, MHz		pF



