

Inline bridge

Silicon-Bridge Rectifiers

GBU 4A ... GBU 4M

Forward Current: 4 A

Reverse Voltage: 50 to 1000 V

Publish Data

Features

- max. solder temperature 260°C, max. 5s
- UL recognized, file no. E63532
- Standard packing: bulk
- $V_{ISO} > 2500$ V

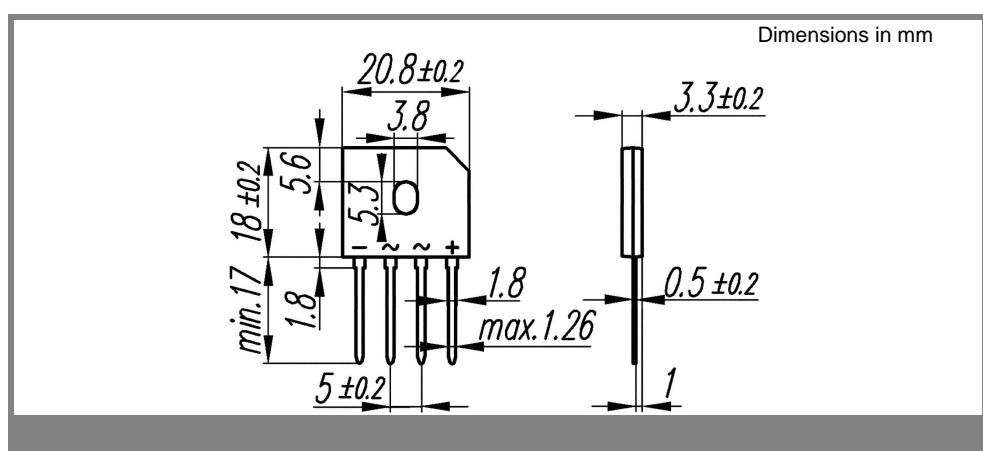
Mechanical Data

- Plastic case 20,8 x 3,3 x18 mm
- Weight approx. 4 g
- Terminals: plated terminals solderable per IEC 68-2-20
- Mounting position: any
- Admissible torque for mounting (M3): 1(+10%) Nm

Type	Alternating input voltage V _{RMS} V	Repetitive peak reverse voltage V _{RRM} V
GBU 4A	35	50
GBU 4B	70	100
GBU 4D	140	200
GBU 4G	280	400
GBU 4J	420	600
GBU 4K	560	800
GBU 4M	700	1000

Symbol	Conditions	$T_c = 25$ °C unless otherwise specified	
		Values	Units
I _{FRM}	Repetitive peak forward current; f > 15 Hz ¹⁾	30	A
I ² t	Rating for fusing, t < 10 ms	166	A ² s
I _{FSM}	Peak forward surge current, 50 Hz half sine-wave $T_A = 25$ °C	200	A
I _{FAV}	Max. averaged fwd. current, R-load, $T_A = 50$ °C ¹⁾	2,8	A
I _{FAV}	Max. averaged fwd. current, C-load, $T_A = 50$ °C ¹⁾	2,2	A
I _{FAV}	Max. current with cooling fin, R-load, $T_C = 100$ °C ²⁾	4	A
I _{FAV}	Max. current with cooling fin, C-load, $T_C = 100$ °C ²⁾	3,2	A
R _{thA}	Thermal resistance junction to ambient ¹⁾	/	K/W
R _{thC}	Thermal resistance junction to case ¹⁾	3,3	K/W
T _j	Operating junction temperature	- 50 ... + 150	°C
T _s	Storage temperature	- 50 ... + 150	°C

Symbol	Conditions	$T_c = 25$ °C unless otherwise specified	
		Values	Units
V _F	Maximum forward. voltage, $T_j = 25$ °C; I _F = 4 A	1	V
I _R	Maximum Leakage current, $T_j = 25$ °C; V _R = V _{RRM}	10	µA
C _J	Typical junction capacitance per leg at V, MHz		pF



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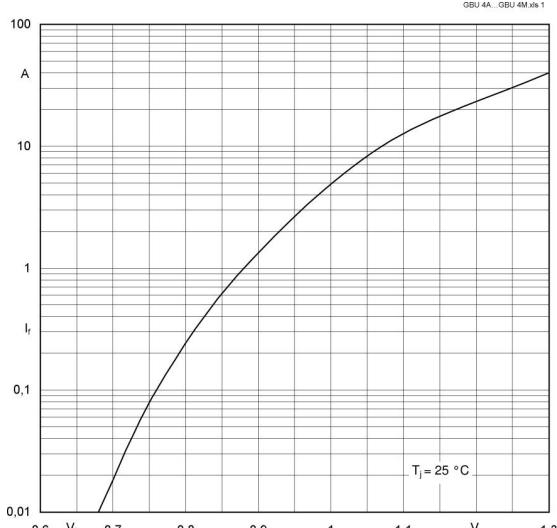


Fig. 1 : Forward characteristics (typical values)

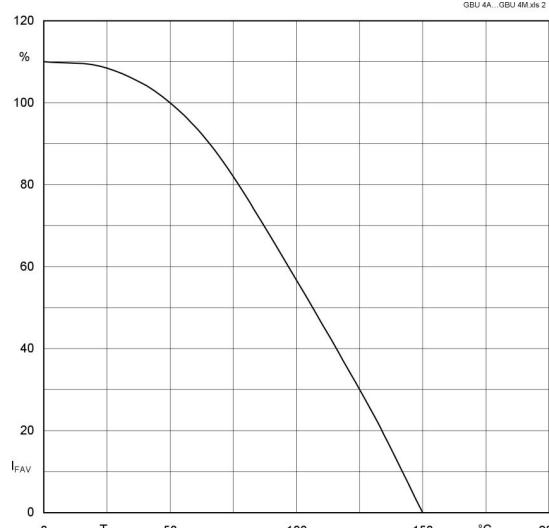


Fig. 2 : Rated forward current vs. ambient temperature