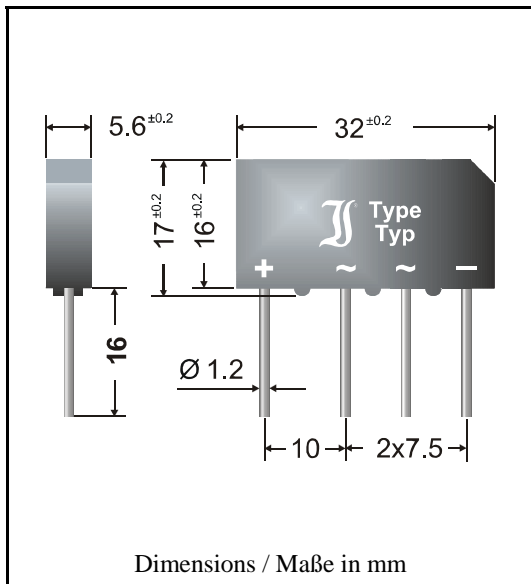


Silicon-Bridge Rectifiers
Silizium-Brückengleichrichter


Nominal current – Nennstrom	10 A
Repetitive peak reverse voltage	50...1000 V
Periodische Spitzensperrspannung	
Plastic case	32 x 5.6 x 17 [mm]
Kunststoffgehäuse	
Weight approx. – Gewicht ca.	9 g
Plastic material has UL classification 94V-0	
Gehäusematerial UL94V-0 klassifiziert	
Standard packaging: bulk	see page 22
Standard Lieferform: lose im Karton	s. Seite 22
Mounting clamp BO 2	see page 28
Befestigungsschelle BO 2	see page 28



Recognized Product – Underwriters Laboratories Inc.® File E175067
 Anerkanntes Produkt – Underwriters Laboratories Inc.® Nr. E175067

Maximum ratings
Grenzwerte

Type Typ	max. alternating input voltage max. Eingangswechselspannung V_{VRMS} [V]	Repetitive peak reverse voltage Periodische Spitzensperrspannung V_{RRM} [V] ¹⁾
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

Peak forward surge current, 50 Hz half sine-wave
 Stoßstrom für eine 50 Hz Sinus-Halbwellen $T_A = 25^\circ\text{C}$ I_{FSM} 200 A

Peak forward surge current, 60 Hz half sine-wave
 Stoßstrom für eine 60 Hz Sinus-Halbwellen $T_A = 25^\circ\text{C}$ I_{FSM} 220 A

Rating for fusing, $t < 10$ ms
 Grenzlastintegral, $t < 10$ ms $T_A = 25^\circ\text{C}$ i^2t 200 A²s

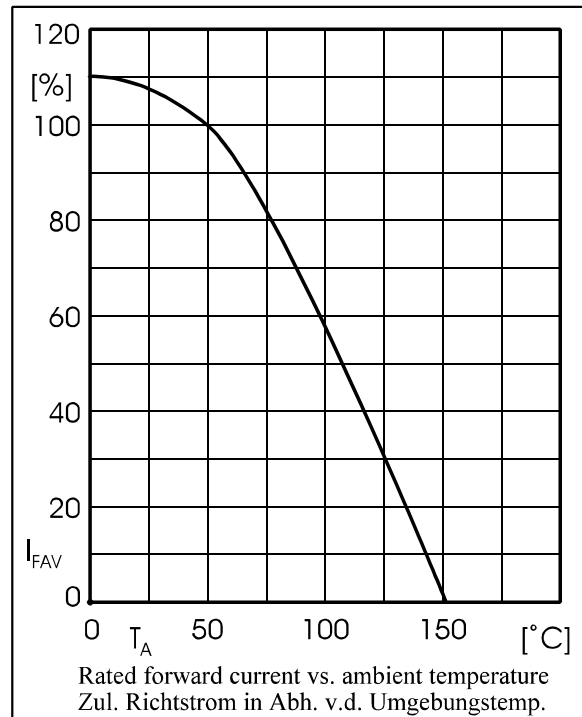
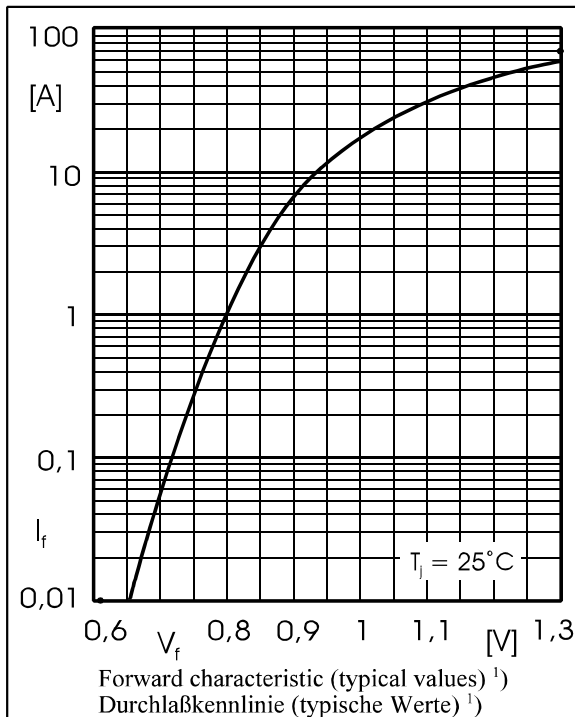
Operating junction temperature – Sperrschichttemperatur T_j – 50...+150°C
 Storage temperature – Lagerungstemperatur T_s – 50...+150°C

¹⁾ Valid for one branch – Gültig für einen Brückenweig

Characteristics

Kennwerte

Max. fwd. current without cooling fin Dauergrenzstrom ohne Kühlblech	$T_A = 50^\circ\text{C}$	R-load C-load	I_{FAV} I_{FAV}	3.0 A 2.2 A
Max. current with forced cooling Dauergrenzstrom mit forcierter Kühlung	$T_C = 100^\circ\text{C}$	R-load C-load	I_{FAV} I_{FAV}	10 A ³⁾ 8 A ³⁾
Forward voltage – Durchlaßspannung	$T_j = 25^\circ\text{C}$	$I_F = 5\text{ A}$	V_F	< 1.05 V ¹⁾
Leakage current – Sperrstrom	$T_j = 25^\circ\text{C}$	$V_R = V_{RRM}$	I_R	< 10 μA
Typical thermal resistance junction to ambient air Typischer Wärmewiderstand Sperrschicht – umgebende Luft			R_{thA}	25 K/W ²⁾
Typical thermal resistance junction to case Typischer Wärmewiderstand Sperrschicht – Gehäuse			R_{thC}	3 K/W ³⁾



¹⁾ Valid for one branch – Gültig für einen Brückenweig

²⁾ Without cooling fin – Ohne Kühlblech

³⁾ Mounted on heatsink with silicon thermal compound and forced airflow resp water cooling
Montage auf Kühlkörper mit Wärmeleitpaste und Gebläse- bzw. Wasserkühlung

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