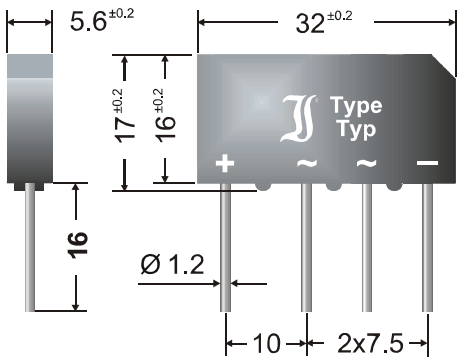
Silicon-Bridge Rectifiers **Silizium-Brückengleichrichter**



Dimensions / Maße in mm

Nominal current – Nennstrom	3.7 A / 2.2 A
Alternating input voltage Eingangswechselspannung	40…500 V
Plastic case Kunststoffgehäuse	32 x 5.6 x 17 [mm]
Weight approx. – Gewicht ca.	9 g
Plastic material has UL classification 94V-0 Gehäusematerial UL94V-0 klassifiziert	
Standard packaging: bulk Standard Lieferform: lose im Karton	see page 22 s. Seite 22
Mounting clamp BO 2 Befestigungsschelle BO 2	see page 28 siehe Seite 28

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

Maximum ratings **Grenzwerte**

Type Typ	Alternating input voltage Eingangswechselspannung V_{VRMS} [V]	Repetitive peak reverse voltage Periodische Spitzensperrspannung V_{RRM} [V] [1])
B40C 3700-2200	40	80
B80C 3700-2200	80	160
B125C 3700-2200	125	250
B250C 3700-2200	250	600
B380C 3700-2200	380	800
B500C 3700-2200	500	1000

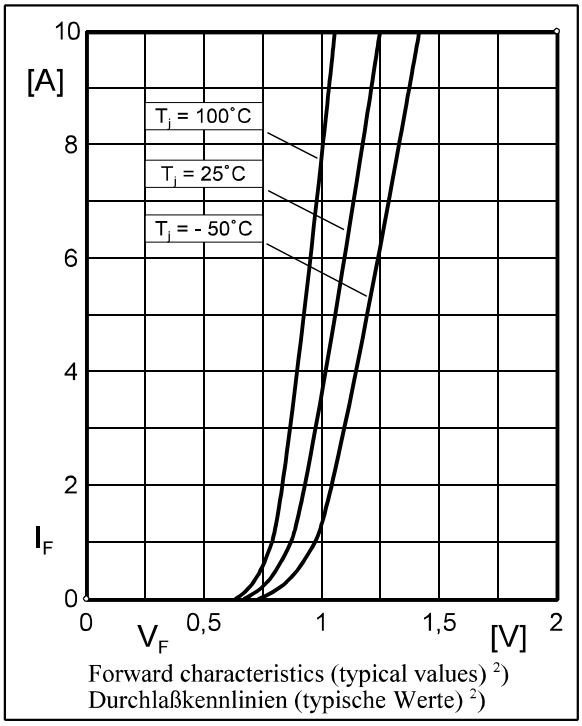
Repetitive peak forward current Periodischer Spitzenstrom	f > 15 Hz	I_{FRM}	30 A [2])
Peak forward surge current, 50 Hz half sine-wave Stoßstrom für eine 50 Hz Sinus-Halbwelle	T_A = 25˚C	I_{FSM}	150 A
Rating for fusing – Grenzlastintegral, t < 10 ms	T_A = 25˚C	i^2t	110 A^2s
Operating junction temperature – Sperrschichttemperatur Storage temperature – Lagerungstemperatur		T_j T_S	– 50...+150˚C – 50...+150˚C

[1]) Valid for one branch – Gültig für einen Brückenzweig
[2]) Valid, if leads are kept at ambient temperature at a distance of 10 mm from case
Gültig, wenn die Anschlußdrähte in 10 mm Abstand vom Gehäuse auf Umgebungstemperatur gehalten werden

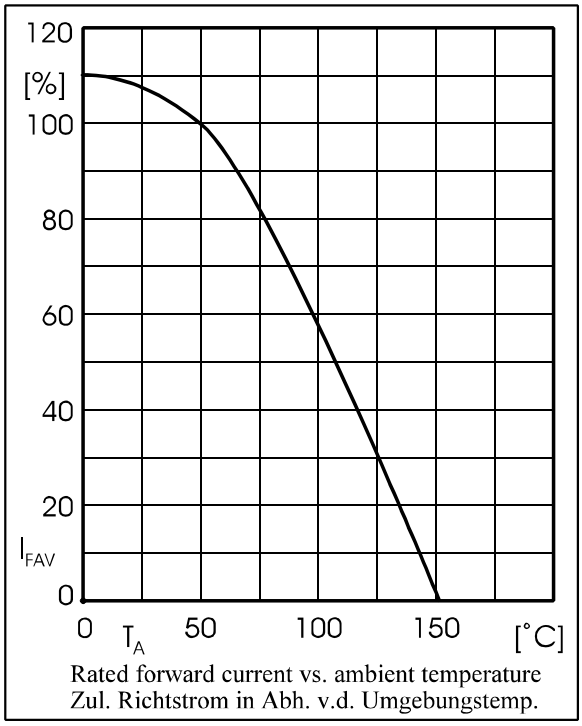
Characteristics — Kennwerte

Max. fwd. current without cooling fin Dauergrenzstrom ohne Kühlblech	$T_A = 50^\circ C$	R-load C-load	I_{FAV} I_{FAV}	2.7 A 2.2 A
Max. current with cooling fin 300 cm^2 Dauergrenzstrom mit Kühlblech 300 cm^2	$T_A = 50^\circ C$	R-load C-load	I_{FAV} I_{FAV}	4.8 A 3.7 A
Leakage current – Sperrstrom	$T_j = 25^\circ C$	$V_R = V_{RRM}$	I_R	< 10 µA
Thermal resistance junction to ambient air Wärmewiderstand Sperrschicht – umgebende Luft			R_{thA}	< 25 K/W [1])

Type Typ	Max. admissible load capacitor Max. zulässiger Ladekondensator C_L [µF]	Min. required protective resistor Min. erforderl. Schutzwiderstand R_t [Ω]
B40C 3700-2200	5000	0.5
B80C 3700-2200	2500	1.0
B125C 3700-2200	1500	2.0
B250C 3700-2200	800	4.0
B380C 3700-2200	600	5.0
B500C 3700-2200	400	6.5



Forward characteristics (typical values) [2])
Durchlaßkennlinien (typische Werte) [2])



Rated forward current vs. ambient temperature
Zul. Richtstrom in Abh. v.d. Umgebungstemp.

[1]) Without cooling fin – Ohne Kühlblech
[2]) Valid for one branch – Gültig für einen Brückenzweig

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