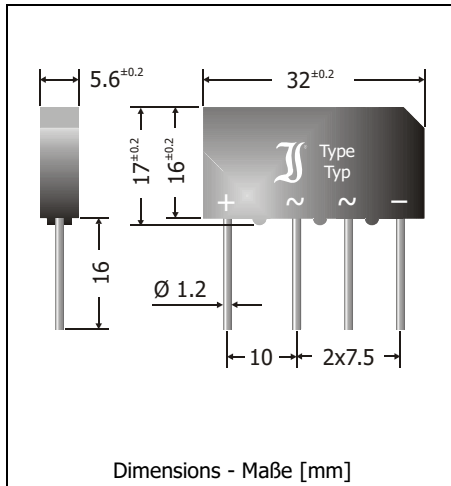



B...C3200-2200A, B...C3700-2200A

Silicon-Bridge-Rectifiers Silizium-Brückengleichrichter

Version 2006-07-28



| | |
|---|---|
| Nominal current Nennstrom | 2.7 / 2.2 A |
| Alternating input voltage Eingangswchelspannung | 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 | |
| Mounting clamp BO2 — Befestigungsschelle BO2 | |



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

Maximum ratings

Grenzwerte

| Type Typ 1) | Max. alternating input voltage Max. Eingangswchelspannung V_{VRMS} [V] | Repetitive peak reverse voltage Periodische Spitzensperrspannung V_{RRM} [V] 2) |
|-------------------|--|---|
| B40C3700-2200A | 40 | 80 |
| B80C3700-2200A | 80 | 160 |
| B125C3700-2200A | 125 | 250 |
| B250C3700-2200A | 250 | 600 |
| B380C3700-2200A | 380 | 800 |
| B500C3700-2200A | 500 | 1000 |

| | | | |
|---|--------------------------|-----------|----------------------|
| Repetitive peak forward current Periodischer Spitzenstrom | $f > 15$ Hz | I_{FRM} | 30 A 3) |
| Peak forward surge current, 50/60 Hz half sine-wave Stoßstrom für eine 50/60 Hz Sinus-Halbwell | $T_A = 25^\circ\text{C}$ | I_{FSM} | 150/165 A |
| Rating for fusing, $t < 10$ ms Grenzlastintegral, $t < 10$ ms | $T_A = 25^\circ\text{C}$ | i^2t | 110 A ² s |
| Operating junction temperature – Sperrschichttemperatur | | T_j | -50...+150°C |
| Storage temperature – Lagerungstemperatur | | T_s | -50...+150°C |

1 Types named B...C3200-2200A have got identical parameters – Typen mit Bezeichnung B...C3200-2200A haben identische Parameter

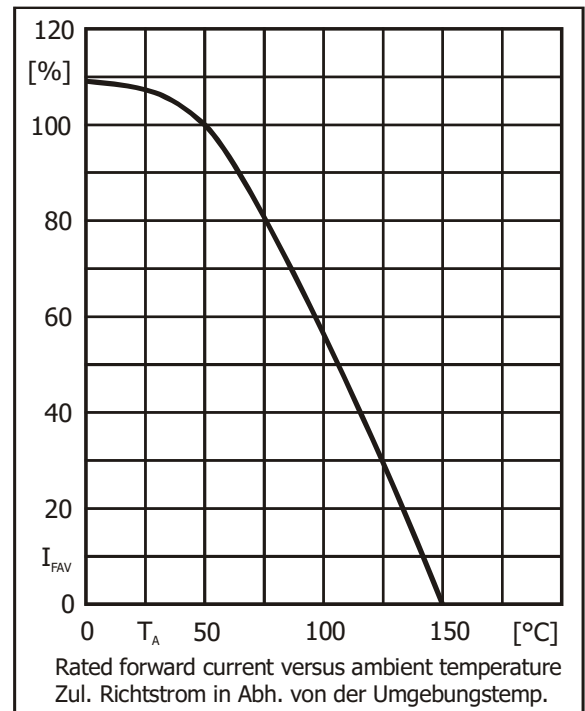
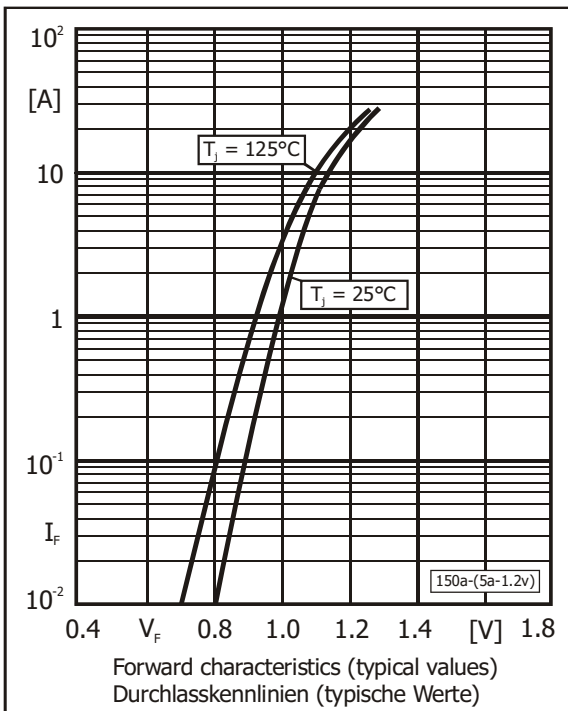
2 Valid per diode – Gültig pro Diode

3 Valid, if leads are kept to ambient temperature $T_A = 50^\circ\text{C}$ at a distance of 5 mm from case
Gültig, wenn die Anschlussdrähte in 5 mm vom Gehäuse auf Umgebungstemperatur $T_A = 50^\circ\text{C}$ gehalten werden

Characteristics
Kennwerte

| | | | | |
|--|--------------------------|------------------|------------------------|--|
| Max. rectified current without cooling fin Dauergrenzstrom ohne Kühlblech | $T_A = 50^\circ\text{C}$ | R-load C-load | I_{FAV} I_{FAV} | 2.7 A ¹⁾ 2.2 A ¹⁾ |
| Max. rectified current with cooling fin 300 cm ² Dauergrenzstrom mit Kühlblech 300 cm ² | $T_A = 50^\circ\text{C}$ | R-load C-load | I_{FAV} I_{FAV} | 4.8 A 3.7 A |
| Leakage current – Sperrstrom | $T_j = 25^\circ\text{C}$ | $V_R = V_{RRM}$ | 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_L [Ω] |
|-----------------|--|---|
| B40C3700-2200A | 5000 | 0.8 |
| B80C3700-2200A | 2500 | 1.6 |
| B125C3700-2200A | 1500 | 2.5 |
| B250C3700-2200A | 800 | 5.0 |
| B380C3700-2200A | 600 | 8.0 |
| B500C3700-2200A | 400 | 10 |



1 Valid, if leads are kept to ambient temperature $T_A = 50^\circ\text{C}$ at a distance of 5 mm from case
Gültig, wenn die Anschlussdrähte in 5 mm vom Gehäuse auf Umgebungstemperatur $T_A = 50^\circ\text{C}$ gehalten werden