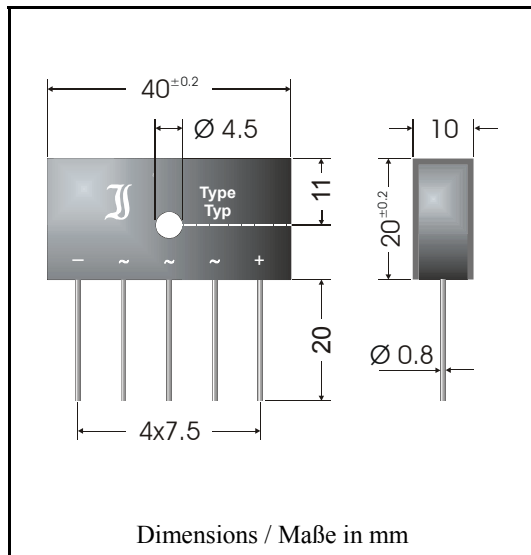


Three-Phase Si-Bridge Rectifiers
Dreiphasen-Si-Brückengleichrichter


| | |
|-------------------------------------|-------------------|
| Nominal current – Nennstrom | 6 A |
| Repetitive peak reverse voltage | 50...1600 V |
| Periodische Spitzensperrspannung | |
| Metal case – Metallgehäuse | |
| Dimensions | 40 x 20 x 10 [mm] |
| Abmessungen | |
| Weight approx. – Gewicht ca. | 35 g |
| Compound has classification UL94V-0 | |
| Vergußmasse UL94V-0 klassifiziert | |
| Standard packaging: bulk | see page 22 |
| Standard Lieferform: lose im Karton | s. Seite 22 |



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⁾ |
|-------------|--|--|
| DBI 6-005 | 35 | 50 |
| DBI 6-01 | 70 | 100 |
| DBI 6-02 | 140 | 200 |
| DBI 6-04 | 280 | 400 |
| DBI 6-06 | 420 | 600 |
| DBI 6-08 | 560 | 800 |
| DBI 6-10 | 700 | 1000 |
| DBI 6-12 | 800 | 1200 |
| DBI 6-14 | 900 | 1400 |
| DBI 6-16 | 1000 | 1600 |

| | | | |
|---|--------------------------|-----------|---------------------|
| Repetitive peak fwd. current – Period. Spitzenstrom | $f > 15$ Hz | I_{FRM} | 30 A ²⁾ |
| Peak forward surge current, 50 Hz half sine-wave Stoßstrom für eine 50 Hz Sinus-Halbwellen | $T_A = 25^\circ\text{C}$ | I_{FSM} | 125 A |
| Rating for fusing, $t < 10$ ms Grenzlastintegral, $t < 10$ ms | $T_A = 25^\circ\text{C}$ | i^2t | 60 A ² s |

¹⁾ Valid for one branch – Gültig für einen Brückenast

²⁾ Valid, if the temperature of the case is kept to 120°C – Gültig, wenn die Gehäusetemp. auf 120°C gehalten wird

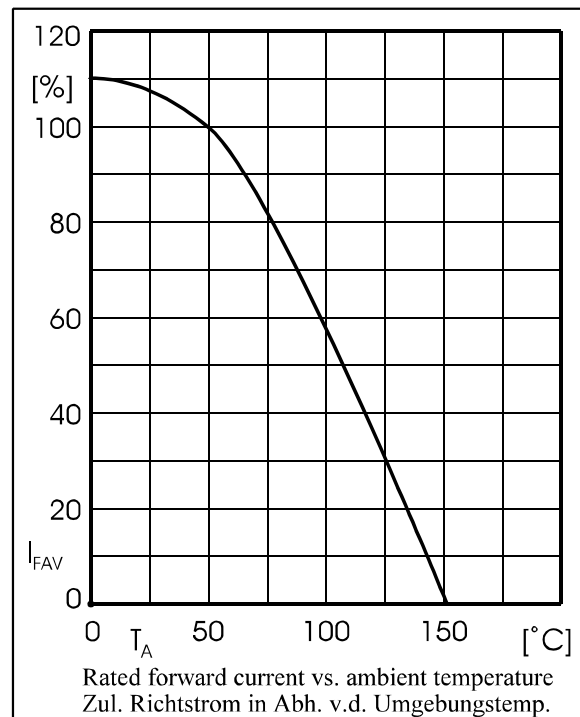
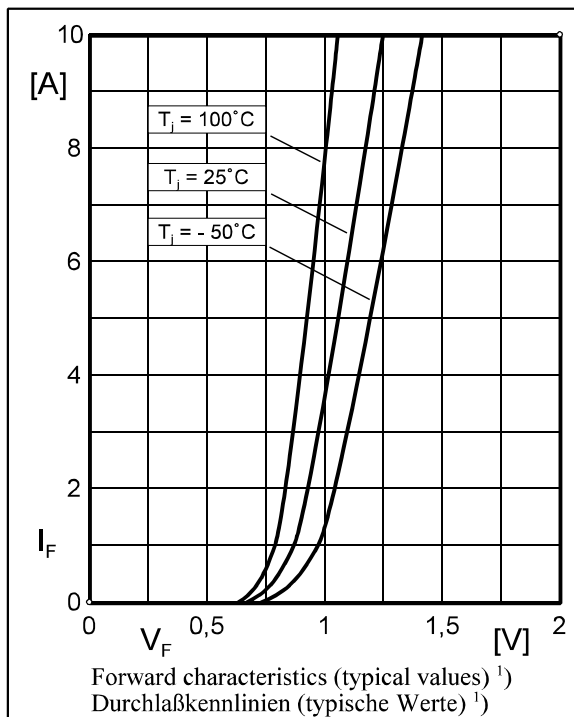
Operating junction temperature – Sperrschichttemperatur
Storage temperature – Lagerungstemperatur

T_j – 50...+150°C
 T_s – 50...+150°C

Characteristics

Kennwerte

| | | | | |
|--|--------------------------|----------------------|------------------------|------------------------------|
| Max. current without cooling fin Dauergrenzstrom ohne Kühlblech | $T_A = 50^\circ\text{C}$ | R-load C-load | I_{FAV} I_{FAV} | 2.0 A 2.0 A |
| Max. 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} | 6.0 A 6.0 A |
| Forward voltage – Durchlaßspannung | $T_j = 25^\circ\text{C}$ | $I_F = 3.0\text{ A}$ | V_F | < 1.05 V ¹⁾ |
| Leakage current – Sperrstrom | $T_j = 25^\circ\text{C}$ | $V_R = V_{RRM}$ | I_R | < 10 µA |
| Isolation voltage terminals to case Isolationsspannung Anschlüsse zum Gehäuse | | | V_{ISO} | >2500 V |
| Thermal resistance junction to case Wärmewiderstand Sperrschicht – Gehäuse | | | R_{thC} | < 4 K/W |
| Admissible torque for mounting Zulässiges Anzugsdrehmoment | | M4 | | 18 ± 10% lb.in 2 ± 10% Nm |



¹⁾ Valid for one branch – Gültig für einen Brückenweig

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