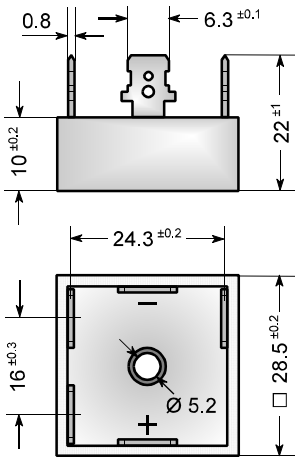


3-Phase Si-Bridge Rectifiers

Dreiphasen-Si-Brückengleichrichter



Dimensions / Maße in mm

Nominal current – Nennstrom 25 A

Repetitive peak reverse voltage 50...1600 V
 Periodische Spitzensperrensorgung

Plastic case with Al-bottom 28.5 x 28.5 x 10 [mm]
 Kunststoffgehäuse mit Alu-Boden

Weight approx. – Gewicht ca. 21 g

Standard packaging: bulk – Standard Lieferform: lose im Karton

Listed by Underwriters Lab. Inc.® to U.S. and Canadian safety standards. File E175067 – Von UL unter Nr. E175067 registriert.

Maximum ratings

Grenzwerte

| Type Typ | Alternating input voltage Eingangswchelspanng. V_{VRMS} [V] | Repetitive peak reverse voltage Period. Spitzensperrensorgung V_{RRM} [V] ¹⁾ | Surge peak reverse voltage Stoßspitzensperrensorgung V_{RSM} [V] ¹⁾ |
|-------------|---|---|--|
| DB 25-005 | 35 | 50 | 80 |
| DB 25-01 | 70 | 100 | 130 |
| DB 25-02 | 140 | 200 | 250 |
| DB 25-04 | 240 | 400 | 450 |
| DB 25-06 | 420 | 600 | 700 |
| DB 25-08 | 560 | 800 | 1000 |
| DB 25-10 | 700 | 1000 | 1200 |
| DB 25-12 | 800 | 1200 | 1300 |
| DB 25-14 | 900 | 1400 | 1500 |
| DB 25-16 | 1000 | 1600 | 1700 |

| | | | |
|---|--------------|-----------|----------------------|
| Repetitive peak forward current Periodischer Spitzenstrom | $f > 15$ Hz | I_{FRM} | 100 A ²⁾ |
| Peak forward surge current, 50 Hz half sine-wave Stoßstrom für eine 50 Hz Sinus-Halbwell | $T_A = 25/C$ | I_{FSM} | 350 A |
| Rating for fusing – Grenzlantintegral, $t < 10$ ms | $T_A = 25/C$ | i^2t | 600 A ² s |
| Operating junction temperature – Sperrschichttemperatur | | T_j | - 50...+150/C |
| Storage temperature – Lagerungstemperatur | | T_s | - 50...+150/C |

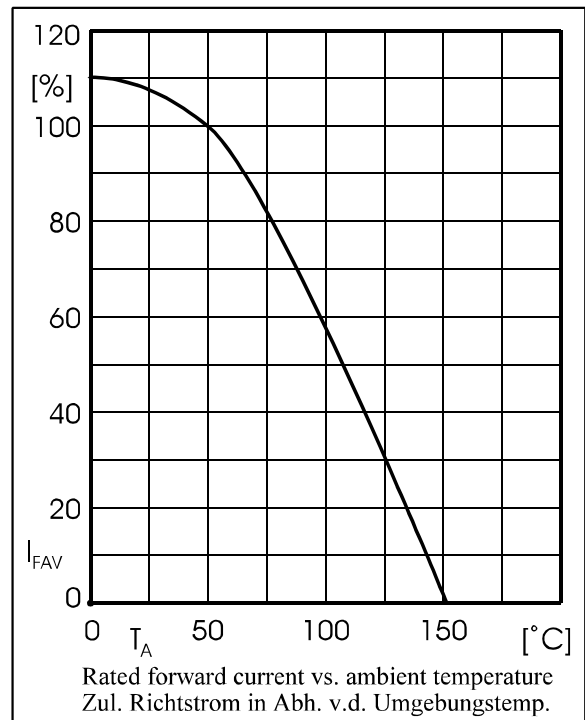
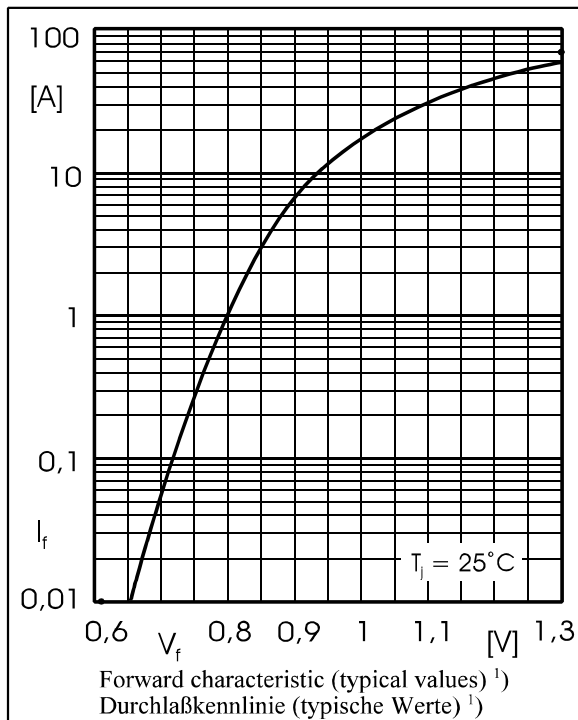
¹⁾ Valid for one branch – Gültig für einen Brückenweig

²⁾ Max. case temperature $T_c = 120/C$ – Max. Gehäusetemperatur $T_c = 120/C$

Characteristics

Kennwerte

| | | | | |
|--|--------------|------------------|------------------------|-------------------------------|
| Max. current with cooling fin 300 cm ² Dauergrenzstrom mit Kühlblech 300 cm ² | $T_A = 50/C$ | R-load C-load | I_{FAV} I_{FAV} | 25.0 A 25.0 A |
| Forward voltage – Durchlaßspannung | $T_j = 25/C$ | $I_F = 12.5 A$ | V_F | < 1.05 V ¹⁾ |
| Leakage current – Sperrstrom | $T_j = 25/C$ | $V_R = V_{RRM}$ | I_R | < 10 : A |
| Isolation voltage terminals to case Isolationsspannung Anschlüsse zum Gehäuse | | | V_{ISO} | >2500 V |
| Thermal resistance junction to case Wärmewiderstand Sperrschicht – Gehäuse | | | R_{thC} | < 2.4 K/W |
| Admissible torque for mounting Zulässiges Anzugsdrehmoment | | 10-32 UNF M 5 | | 18 ± 10% lb.in. 2 ± 10% Nm |



¹⁾ Valid for one branch – Gültig für einen Brückenweig