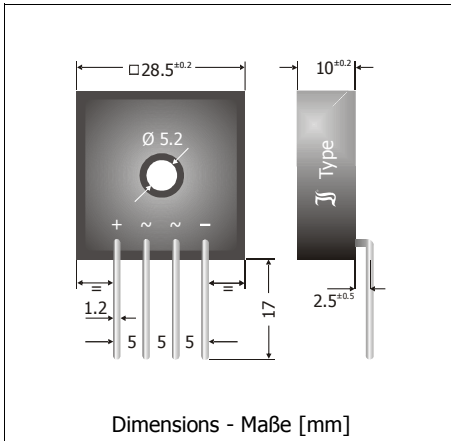


KBPC3500IP ... KBPC3510IP

Silicon-Bridge-Rectifiers Silizium-Brückengleichrichter

Version 2009-11-16



| | |
|--|-----------------------|
| Nominal current Nennstrom | 35 A |
| Alternating input voltage Eingangswchelspannung | 35...700 V |
| Plastic case with alu bottom Plastikgehäuse mit Alu-Boden | 28.5 x 28.5 x 10 [mm] |
| Weight approx. – Gewicht ca. | 21 g |
| Compound has classification UL94V-0 Vergussmasse nach UL94V-0 klassifiziert | |
| Standard packaging bulk Standard Lieferform lose im Karton | |



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

Maximum ratings

Grenzwerte

| Type Typ | Max. alternating input voltage Max. Eingangswchelspannung V_{VRMS} [V] | Repetitive peak reverse voltage Periodische Spitzensperrspannung V_{RRM} [V] ¹⁾ |
|-------------|--|--|
| KBPC3500IP | 35 | 50 |
| KBPC3501IP | 70 | 100 |
| KBPC3502IP | 140 | 200 |
| KBPC3504IP | 280 | 400 |
| KBPC3506IP | 420 | 600 |
| KBPC3508IP | 560 | 800 |
| KBPC3510IP | 700 | 1000 |

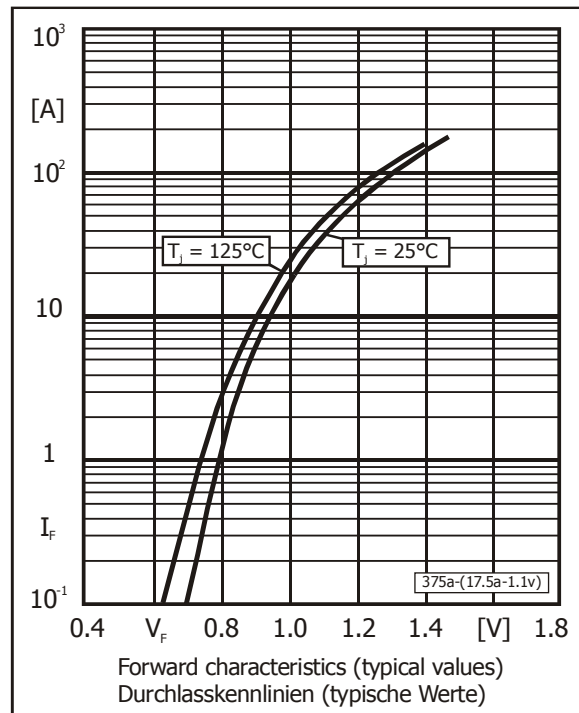
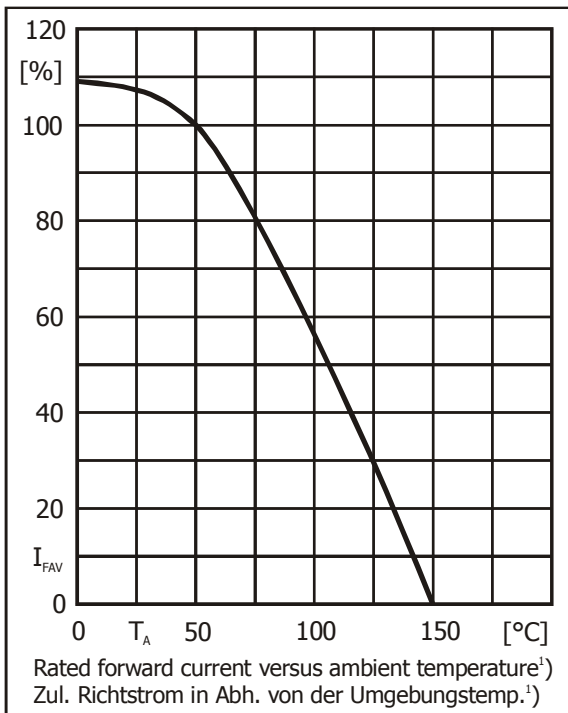
| | | | |
|--|--------------------------|-----------|----------------------|
| Repetitive peak forward current Periodischer Spitzenstrom | $f > 15$ Hz | I_{FRM} | 80 A ²⁾ |
| Peak forward surge current 50 Hz half sine-wave Stoßstrom für eine 50 Hz Sinus-Halbwell | $T_A = 25^\circ\text{C}$ | I_{FSM} | 375 A |
| Peak forward surge current 60 Hz half sine-wave Stoßstrom für eine 60 Hz Sinus-Halbwell | $T_A = 25^\circ\text{C}$ | I_{FSM} | 400 A |
| Rating for fusing, $t < 10$ ms Grenzlastintegral, $t < 10$ ms | $T_A = 25^\circ\text{C}$ | i^2t | 660 A ² s |
| Operating junction temperature – Sperrschichttemperatur | | T_j | -50...+150°C |
| Storage temperature – Lagerungstemperatur | | T_s | -50...+150°C |

1 Valid per diode – Gültig pro Diode

2 Valid, if the temperature of the case is kept to $T_C = 120^\circ\text{C}$ – Gültig, wenn die Gehäusetemperatur auf $T_C = 120^\circ\text{C}$ gehalten wird

Characteristics
Kenwerte

| | | | | |
|--|--------------------------|------------------------|-----------|------------------------------|
| Max. current with cooling fin 300 cm ² ¹ | $T_A = 50^\circ\text{C}$ | R-load | I_{FAV} | 35 A |
| Dauergrenzstrom mit Kühlblech 300 cm ² | | C-load | I_{FAV} | 28 A |
| Forward voltage – Durchlass-Spannung | $T_j = 25^\circ\text{C}$ | $I_F = 17.5 \text{ A}$ | V_F | < 1.1 V ²⁾ |
| Leakage current – Sperrstrom | $T_j = 25^\circ\text{C}$ | $V_R = V_{RRM}$ | I_R | < 25 μA |
| Isolation voltage terminals to case | | | V_{ISO} | > 2500 V |
| Isolationsspannung Anschlüsse zum Gehäuse | | | | |
| Thermal resistance junction to case | | | R_{thC} | < 1.5 K/W |
| Wärmewiderstand Sperrschicht – Gehäuse | | | | |
| Admissible torque for mounting | | 10-32 UNF | | $18 \pm 10\% \text{ lb.in.}$ |
| Zulässiges Anzugsdrehmoment | | M5 | | $2 \pm 10\% \text{ Nm}$ |



1 Valid, if the temperature of the case is kept to $T_C = 120^\circ\text{C}$ – Gültig, wenn die Gehäusetemperatur auf $T_C = 120^\circ\text{C}$ gehalten wird
2 Valid per diode – Gültig pro Diode

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