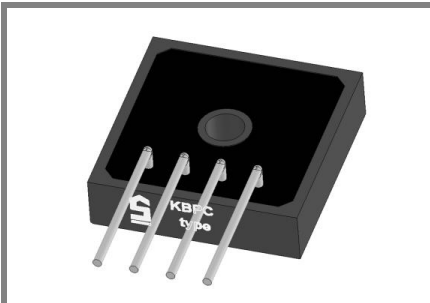


# KBPC 2500I ... KBPC 2510 ...



**Square bridge**

| Type       | Alternating input voltage<br>$V_{RMS}$<br>V | Repetitive peak reverse voltage<br>$V_{RRM}$<br>V |
|------------|---|---|
| KBPC 2500I | 35  | 50  |
| KBPC 2501I | 70  | 100   |
| KBPC 2502I | 140   | 200   |
| KBPC 2504I | 280   | 400   |
| KBPC 2506I | 420   | 600   |
| KBPC 2508I | 560   | 800   |
| KBPC 2510I | 700   | 1000  |

## Silicon-Bridge Rectifiers

### KBPC 2500I ... KBPC 2510I

**Forward Current: 25 A**

**Reverse Voltage: 50 to 1000 V**

Publish Data

### Features

- max. solder temperature 260°C, max. 5s
- UL recognized, file no.E63532
- Standard packaging: bulk
- $V_{ISO} > 2500$  V

### Mechanical Data

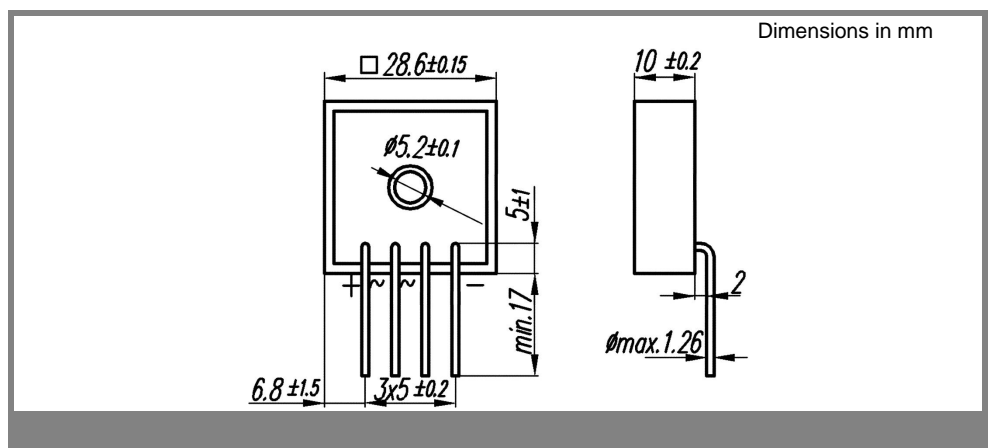
- Plastic case with alu-bottom 28,6 \* 28,6 \* 7,3 [mm]
- Weight approx. 18 g
- Terminals: plated terminals solderable per IEC 68-2-20
- Mounting position: any
- Admissible torque for mounting (M 5): 2 (± 10 %) Nm

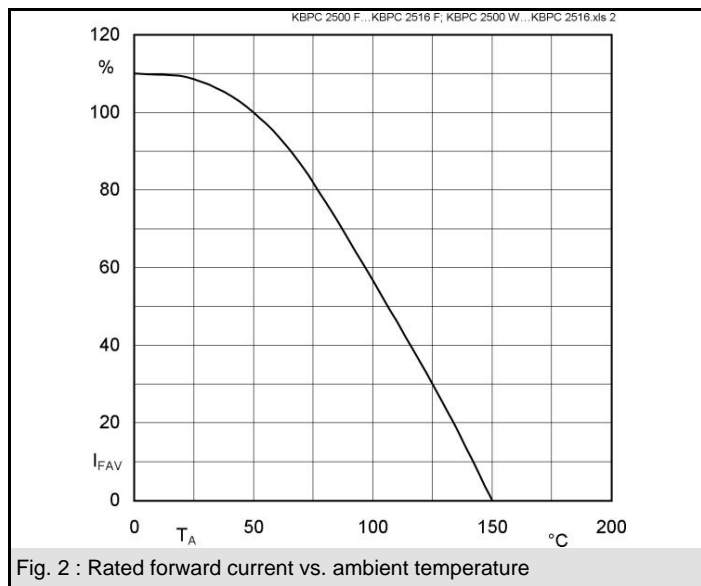
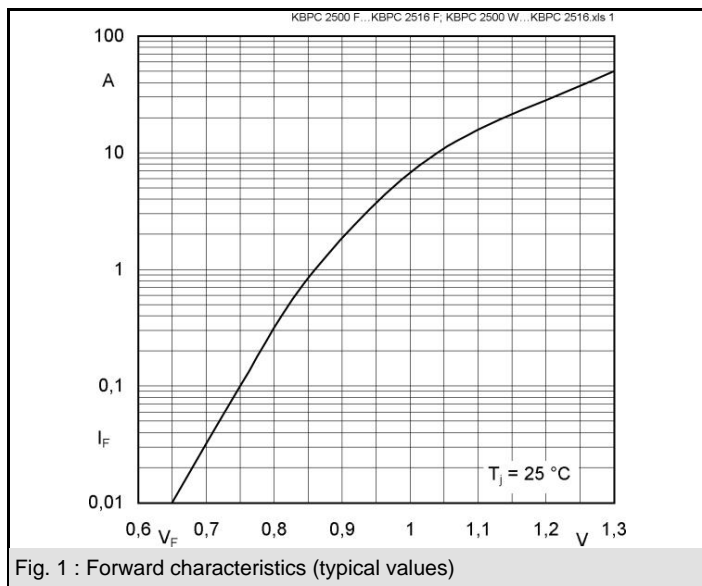
### Absolute Maximum Ratings $T_c = 25^\circ\text{C}$ unless otherwise specified

| Symbol    | Conditions   | Values         | Units            |
|-----------|--|----------------|------------------|
| $I_{FRM}$ | Repetitive peak forward current; $f > 15$ Hz <sup>1)</sup>                     | 60             | A                |
| $I^2t$    | Rating for fusing, $t < 10$ ms   | 375            | A <sup>2</sup> s |
| $I_{FSM}$ | Peak forward surge current, 50 Hz half sine-wave<br>$T_A = 25^\circ\text{C}$   | 300            | A                |
| $I_{FAV}$ | Max. averaged fwd. current, R-load, $T_A = 50^\circ\text{C}$ <sup>1)</sup>     | not applicable | A                |
| $I_{FAV}$ | Max. averaged fwd. current, C-load, $T_A = 50^\circ\text{C}$ <sup>1)</sup>     | not applicable | A                |
| $I_{FAV}$ | Max. current with cooling fin, R-load, $T_c = 100^\circ\text{C}$ <sup>2)</sup> | 25             | A                |
| $I_{FAV}$ | Max. current with cooling fin, C-load, $T_c = 100^\circ\text{C}$ <sup>2)</sup> | 20             | A                |
| $R_{thA}$ | Thermal resistance junction to ambient <sup>1)</sup>                           |                | K/W              |
| $R_{thC}$ | Thermal resistance junction to case <sup>1)</sup>                              | 2              | K/W              |
| $T_j$     | Operating junction temperature   | - 50 ... + 150 | °C               |
| $T_s$     | Storage temperature  | - 50 ... + 150 | °C               |

### Characteristics $T_c = 25^\circ\text{C}$ unless otherwise specified

| Symbol | Conditions   | Values | Units         |
|--------|--|--------|---------------|
| $V_F$  | Maximum forward. voltage,<br>$T_j = 25^\circ\text{C}$ ; $I_F = 12,5$ A | 1,2    | V             |
| $I_R$  | Maximum Leakage current,<br>$T_j = 25^\circ\text{C}$ ; $V_R = V_{RRM}$ | 25     | $\mu\text{A}$ |
| $C_j$  | Typical junction capacitance per leg at V, MHz                         |        | pF            |





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