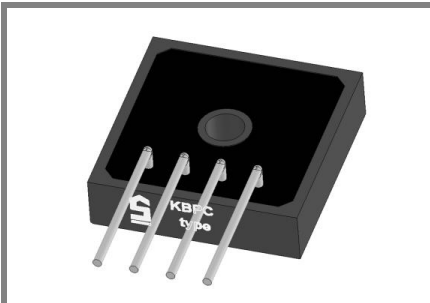


KBPC 3500I ... KBPC 3510I ...



Square bridge

Silicon-Bridge Rectifiers

KBPC 3500I ... KBPC 3510I

Forward Current: 35 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
- $V_{ISO} > 2500 \text{ V}$

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 %) N

Type	Alternating input voltage V_{RMS} V	Repetitive peak reverse voltage V_{RRM} V
KBPC 3500I	35	50
KBPC 3501I	70	100
KBPC 3502I	140	200
KBPC 3504I	280	400
KBPC 3506I	420	600
KBPC 3508I	560	800
KBPC 3510I	700	1000

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

Symbol	Conditions	Values	Units
I_{FRM}	Repetitive peak forward current; $f > 15 \text{ Hz}^{1)}$	80	A
I^2t	Rating for fusing, $t < 10 \text{ ms}$	660	A ² s
I_{FSM}	Peak forward surge current, 50 Hz half sine-wave $T_A = 25 \text{ }^\circ\text{C}$	400	A
I_{FAV}	Max. averaged fwd. current, R-load, $T_A = 100 \text{ }^\circ\text{C}^{1)}$	not applicable	A
I_{FAV}	Max. averaged fwd. current, C-load, $T_A = 100 \text{ }^\circ\text{C}^{1)}$	not applicable	A
I_{FAV}	Max. current with cooling fin, R-load, $T_c = 100 \text{ }^\circ\text{C}^{2)}$	35	A
I_{FAV}	Max. current with cooling fin, C-load, $T_c = 100 \text{ }^\circ\text{C}^{2)}$	28	A
R_{thA}	Thermal resistance junction to ambient ¹⁾		K/W
R_{thC}	Thermal resistance junction to case ¹⁾	1,5	K/W
T_j	Operating junction temperature	- 50 ... + 150	°C
T_s	Storage temperature	- 50 ... + 150	°C

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

Symbol	Conditions	Values	Units
V_F	Maximum forward. voltage, $T_j = 25 \text{ }^\circ\text{C}$; $I_F = 17,5 \text{ A}$	1,1	V
I_R	Maximum Leakage current, $T_j = 25 \text{ }^\circ\text{C}$; $V_R = V_{RRM}$	25	μA
C_j	Typical junction capacitance per leg at V, MHz		pF

