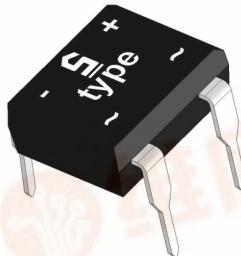


B 40D ... B 500D**Square bridge**

Type	Alternating Input voltage V_{VRMS} V	Repetitive peak reverse voltage V_{RRM} V	Max. admissible load capacitor C_L μF	Min. required protective resistor R_t Ω
B 40D	40	80	5000	0,8
B 80D	80	160	2500	1,6
B 125D	125	250	1500	2,5
B 250D	250	600	800	5
B 380D	380	800	600	8
B 500D	500	1000	400	10

Si-Bridge Rectifiers**B 40D ... B 500D****Forward Current: 1,0 A****Reverse Voltage: 80 to 1000 V**

Publish Data

Features

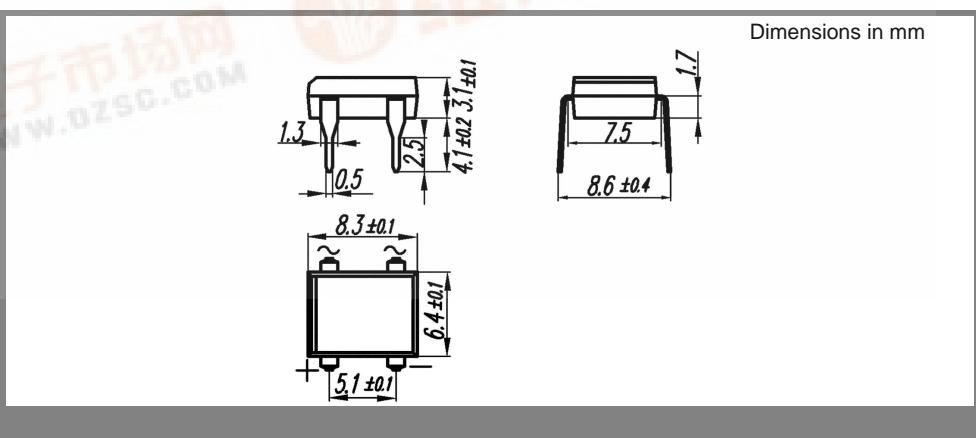
- max. solder temperature 260°C, max. 5s
- UL recognized, file no. E63532
- Standard packaging: plastic tubes

Mechanical Data

- Plastic case 8,3 * 6,4 * 3,1 [mm]
- Weight approx. 0,3 g
- Terminals: plated terminals solderable per IEC 68-2-20
- Mounting position: any

Absolute Maximum Ratings		$T_c = 25^\circ\text{C}$ unless otherwise specified	
Symbol	Conditions	Values	Units
I^2t	Rating for fusing, $t < 10 \text{ ms}$	8	A ² s
I_{FRM}	Repetitive peak forward current > 15 Hz	10	A
I_{FSM}	Peak forward surge current, 50 Hz half sine-wave	40	A
t_{rr}	Reverse recovery time ($I_F = A$)	/	ns
I_{FAV}	Max. averaged fwd. current, R-load, $T_A = 50^\circ\text{C}$ ¹⁾	1	A
I_{FAV}	Max. averaged fwd. current, C-load, $T_A = 50^\circ\text{C}$ ¹⁾	0,8	A
I_{FAV}	Max. current with cooling fin, R-load, $T_C = ?^\circ\text{C}$ ²⁾	/	A
I_{FAV}	Max. current with cooling fin, C-load, $T_C = 50^\circ\text{C}$ ²⁾	0,8	A
R_{thA}	Thermal resistance junction to ambient ¹⁾	60	K/W
R_{thC}	Thermal resistance junction to case ¹⁾		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, $T_j = 25^\circ\text{C}$, $I_F = 1 \text{ A}$	1,1	V
I_R	Maximum leakage current, $T_j = 25^\circ\text{C}$, $V_R = V_{RRM}$	10	μA
C_J	Typical junction capacitance per leg at V, MHz		pF



B 40D ... B 500D

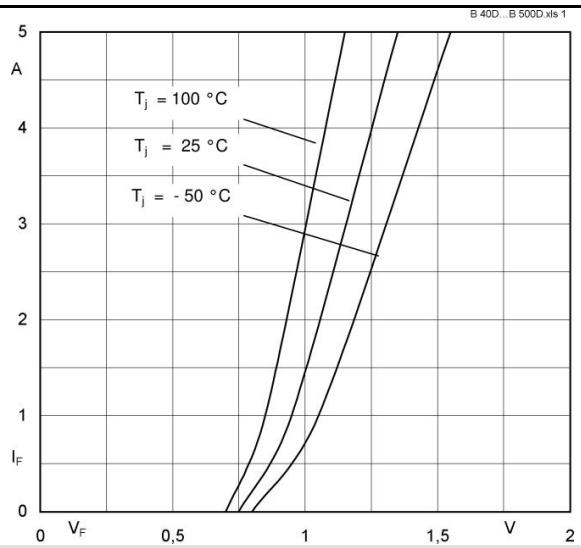


Fig. 1 : Forward characteristics (typical values)

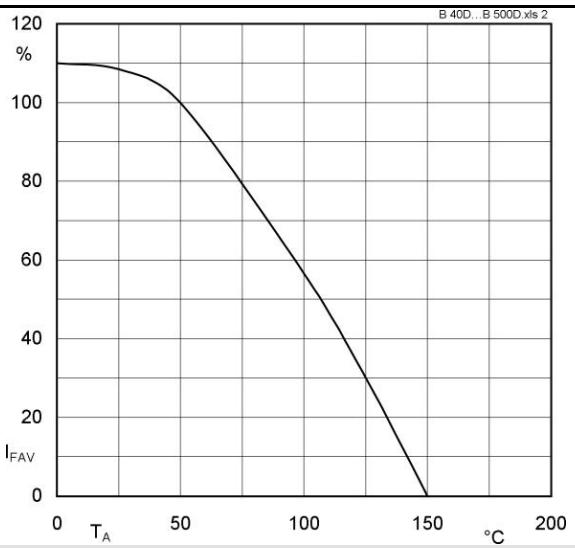


Fig. 2 : Rated forward current vs. ambient temperature