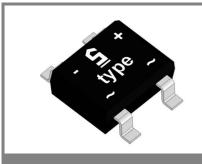
B 40S ... B 500S



Square bridge

Surface Mount Si-Bridge Rectifiers

B 40S ... B 500S

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 taped and reeled

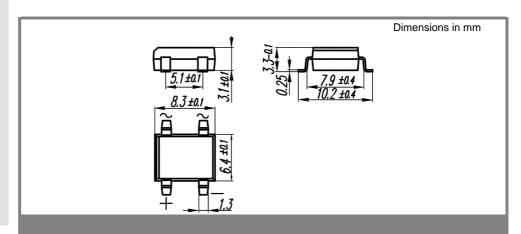
Mechanical Data

- Plastic case 8,3 * 6,4 * 3,1 [mm]
- Weight approx. 0,3 g
- Terminals: plated terminals
- solderable per IEC68-2-20
- Mounting position: any

Туре	Alternating Input voltage V _{VRMS} V	Repetitive peak reverse voltage V _{RRM} V	Max. admissable load capacitor C _L µF	Min. required protective resistor R _t Ω
B 40S	40	80	5000	0,8
B 80S	80	160	2500	1,6
B 125S	125	250	1500	2,5
B 250S	250	600	800	5
B 380S	380	800	600	8
B 500S	500	1000	400	10

Absolute	Maximum Ratings	$T_c = 25$ °C unless otherwise specified		
Symbol	Conditions	Values	Units	
l²t	Rating for fusing, t < 10 ms	8	A²s	
I _{FRM}	Repetitive peak forward current > 15 Hz	10	А	
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 °C $^{1)}$	1	A	
I _{FAV}	Max. averaged fwd. current, C-load, T _A = 50 °C $^{1)}$	0,8	A	
I _{FAV}	Max. current with cooling fin, R-load, T _C = °C $^{2)}$	/	A	
I _{FAV}	Max. current with cooling fin, C-load, T _C = °C $^{2)}$	/	A	
R _{thA}	Thermal resistance junction to ambient ¹⁾	60	K/W	
R _{thC}	Thermal resistance junction to case ¹⁾		K/W	
Tj	Operating junction temperature	- 50 + 150	°C	
T _s	Storage temperature	- 50 + 150	°C	

Characteristics		T _c = 25 °C unless otherwis	T_c = 25 °C unless otherwise specified		
Symbol	Conditions	Values	Units		
V _F	Maximum forward. voltage, T _i = 25 °C, I _F = 1 A	1,1	V		
I _R	Maximum leakage current, $T_j = 25 \text{ °C}, V_R = V_{RRM}$	10	μA		
C ¹	Typical junction capacitance per leg at V, MHz		pF		



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