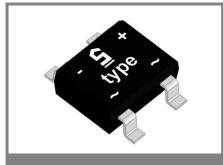
## B 40FS ... B 380FS



### Square bridge

Fast Switching Surface Mount Si-Bridge Rectifiers

B 40FS ... B 380FS

Forward Current: 1,0 A

Reverse Voltage: 80 to 800 V

Publish Data

#### **Features**

- max. solder temperature 260°C, max. 5s
- UL recognized, file no. E63532
- Standard packaging taped and reeled

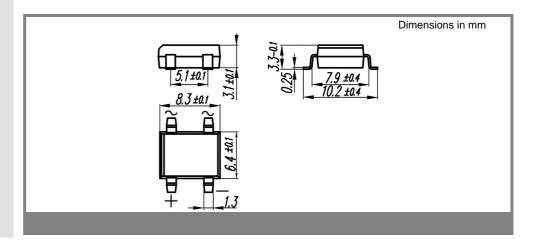
#### **Mechanical Data**

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

Туре	Alternating Input voltage  V <sub>VRMS</sub> V	Repetitive peak reverse voltage V <sub>RRM</sub> V	Max. admissable load capacitor C <sub>L</sub> µF	$\begin{array}{c} \text{Min.} \\ \text{required} \\ \text{protective} \\ \text{resistor} \\ \\ \text{R}_t \\ \\ \Omega \end{array}$
B 40FS	40	80	5000	0,8
B 80FS	80	160	2500	1,6
B 125FS	125	250	1500	2,5
B 250FS	250	600	800	5
B 380FS	380	800	600	8

<b>Absolute Maximum Ratings</b> $T_c = 25  ^{\circ}\text{C}$ unless otherwise specified					
Symbol	Conditions	Values	Units		
l²t	Rating for fusing, t < 10 ms	8	A²s		
I <sub>FRM</sub>	Repetitive peak forward current > 15 Hz	10	Α		
I <sub>FSM</sub>	Peak forward surge current, 50 Hz half sine-wave	40	А		
t <sub>rr</sub>	Reverse recovery time (I <sub>F</sub> = 0,5 A)	<300 (I <sub>R</sub> = 1 A to I <sub>R</sub> = 0,25 A)	ns		
I <sub>FAV</sub>	Max. averaged fwd. current, R-load, $T_A = 50  ^{\circ}\text{C}^{-1}$	1	А		
I <sub>FAV</sub>	Max. averaged fwd. current, C-load, T <sub>A</sub> = 50 °C <sup>1)</sup>	8,0	А		
I <sub>FAV</sub>	Max. current with cooling fin, R-load, $T_C = {}^{\circ}C^{(2)}$	1	А		
I <sub>FAV</sub>	Max. current with cooling fin, C-load, $T_C = {}^{\circ}C^{(2)}$	1	А		
R <sub>thA</sub>	Thermal resistance junction to ambient 1)	60	K/W		
R <sub>thC</sub>	Thermal resistance junction to case 1)		K/W		
T <sub>j</sub>	Operating junction temperature	- 50 <b>+</b> 150	°C		
T <sub>s</sub>	Storage temperature	- 50 <b>+</b> 150	°C		

Characteristics		T <sub>c</sub> = 25 °C unless otherwise specified	
Symbol	Conditions	Values	Units
V <sub>F</sub>	Maximum forward. voltage, $T_j = 25 ^{\circ}\text{C}, I_F = 1 \text{A}$	1,3	V
I <sub>R</sub>	Maximum leakage current, $T_j = 25 ^{\circ}\text{C},  V_R = V_{RRM}$	10	μΑ
CJ	Typical junction capacitance per leg at V, MHz		pF



# B 40FS ... B 380FS

