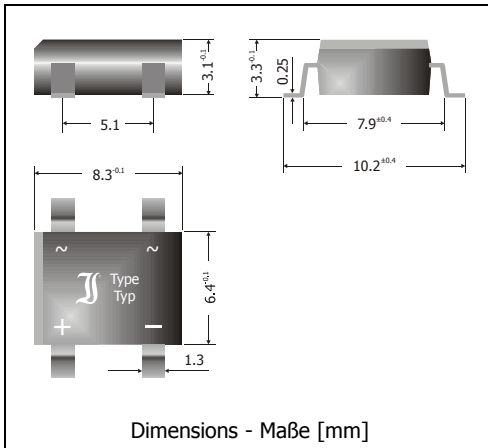


B40S2A ... B380S2A

Surface Mount Si-Bridge-Rectifiers Si-Brückengleichrichter für die Oberflächenmontage

Version 2006-09-14



Nominal current 2.3 A

Nennstrom

Alternating input voltage 40...380 V

Eingangswechselspannung

Plastic case SO-DIL 8.3 x 6.4 x 3.1

Kunststoffgehäuse SO-DIL

[mm]

Weight approx. – Gewicht ca.

0.4 g

Plastic material has UL classification 94V-0

Gehäusematerial UL94V-0 klassifiziert

Standard packaging taped and reeled

Standard Lieferform gegurtet auf Rolle



Recognized Product – Underwriters Laboratories Inc.® File E175067

Anerkanntes Produkt – Underwriters Laboratories Inc.® Nr. E175067

Maximum ratings

Grenzwerte

Type Typ	Max. alternating input voltage Max. Eingangswechselspannung V_{VRMS} [V]	Repetitive peak reverse voltage Periodische Spitzensperrensprung V_{RRM} [V] ¹⁾
B40S2A	40	80
B80S2A	80	160
B125S2A	125	250
B250S2A	250	600
B380S2A	380	800

Repetitive peak forward current
Periodischer Spitzenstrom $f > 15$ Hz I_{FRM} 13 A²⁾Peak forward surge current, 50/60 Hz half sine-wave
Stoßstrom für eine 50/60 Hz Sinus-Halbwelle $T_A = 25^\circ\text{C}$ I_{FSM}

65/72 A

Rating for fusing, $t < 10$ ms
Grenzlastintegral, $t < 10$ ms $T_A = 25^\circ\text{C}$ i^2t 21 A²s

Operating junction temperature – Sperrschichttemperatur

 T_j

-50...+150°C

Storage temperature – Lagerungstemperatur

 T_s

-50...+150°C

1 Per Diode – Pro Diode

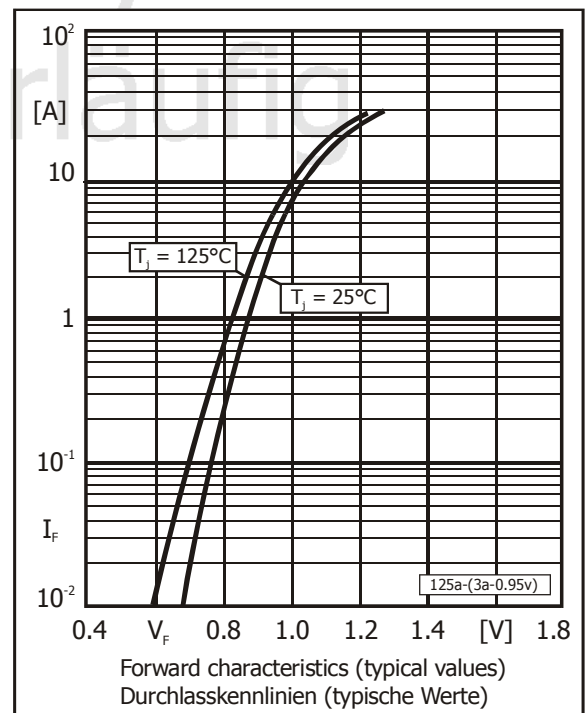
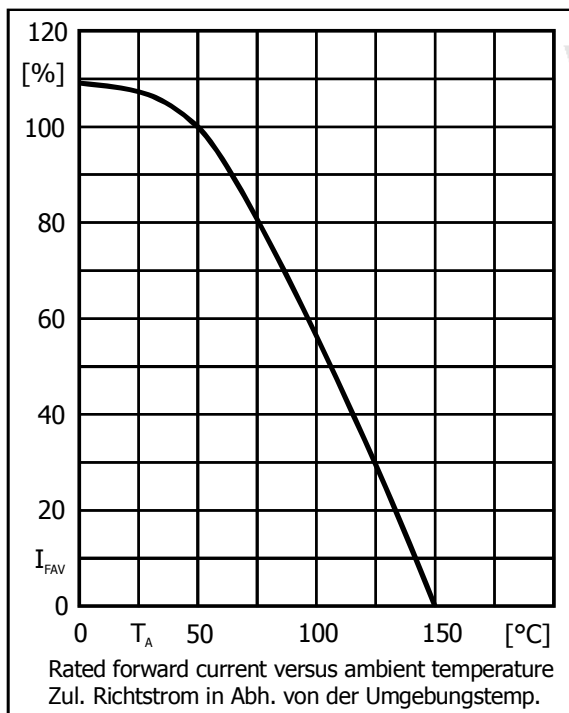
2 Max. temperature of the terminals $T_T = 100^\circ\text{C}$ – Max. Temperatur der Anschlüsse $T_T = 100^\circ\text{C}$

Characteristics
Kennwerte

Max. average forward rectified current Dauergrenzstrom	$T_A = 50^\circ\text{C}$	R-load C-load	I_{FAV} I_{FAV}	2.3 A ¹⁾ 1.9 A ¹⁾
Forward voltage – Durchlass-Spannung	$T_j = 25^\circ\text{C}$	$I_F = 2\text{ A}$	V_F	< 0.95 V ²⁾
Leakage current – Sperrstrom	$T_j = 25^\circ\text{C}$	$V_R = V_{RRM}$	I_R	< 10 μA
Thermal resistance junction to ambient air Wärmewiderstand Sperrschicht – umgebende Luft			R_{thA}	< 30 K/W ¹⁾

Type Typ	Max. admissible load capacitor Max. zulässiger Ladekondensator C_L [μF]	Min. required protective resistor Min. erforderl. Schutzwiderstand R_t [Ω]
B40S2A	4000	1.3
B80S2A	2000	2.5
B125S2A	1250	4.0
B250S2A	500	10.0
B380S2A	400	12.5

Preliminary



- 1 Mounted on P.C. Board with 25 mm² copper pads at each terminal
Montage auf Leiterplatte mit 25 mm² Kupferbelag (Löt-pad) an jedem Anschluss
- 2 Per Diode – Pro Diode