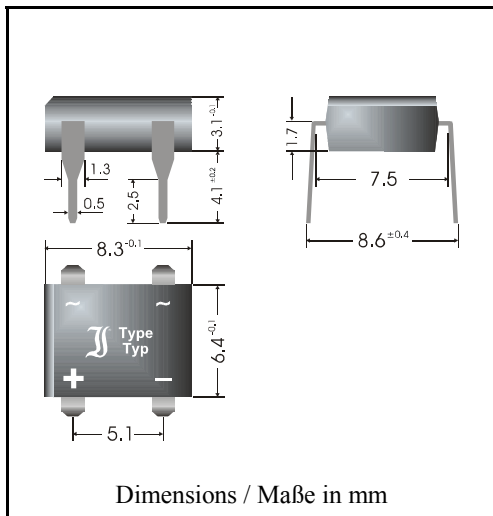


Silicon-Bridge Rectifiers

Silizium-Brückengleichrichter



Nominal current – Nennstrom	1 A
Alternating input voltage Eingangswchelspannung	40...500 V
DIL-plastic case DIL-Kunststoffgehäuse	8.3 x 6.4 x 3.1 [mm]
Weight approx. – Gewicht ca.	0.4 g
Plastic material has UL classification 94V-0 Gehäusematerial UL94V-0 klassifiziert	
Standard packaging: plastic tubes Standard Lieferform: Plastik-Schienen	see page 22 siehe Seite 22



Recognized Product – Underwriters Laboratories Inc.® File E175067
Anerkanntes Produkt – Underwriters Laboratories Inc.® Nr. E175067

Maximum ratings

Grenzwerte

Type Typ	Alternating input voltage Eingangswchelspannung V_{VRMS} [V]	Repetitive peak reverse voltage Periodische Spitzensperrspannung V_{RRM} [V] ¹⁾
B 40D	40	80
B 80D	80	160
B 125D	125	250
B 250D	250	600
B 380D	380	800
B 500D	500	1000

Repetitive peak forward current Periodischer Spitzenstrom	$f > 15$ Hz	I_{FRM}	10 A ²⁾
Peak forward surge current, 50 Hz half sine-wave Stoßstrom für eine 50 Hz Sinus-Halbwell	$T_A = 25^\circ C$	I_{FSM}	40 A
Rating for fusing, $t < 10$ ms Grenzlastintegral, $t < 10$ ms	$T_A = 25^\circ C$	i^2t	8 A ² s
Operating junction temperature – Sperrschichttemperatur Storage temperature – Lagerungstemperatur		T_j T_s	– 50...+150°C – 50...+150°C

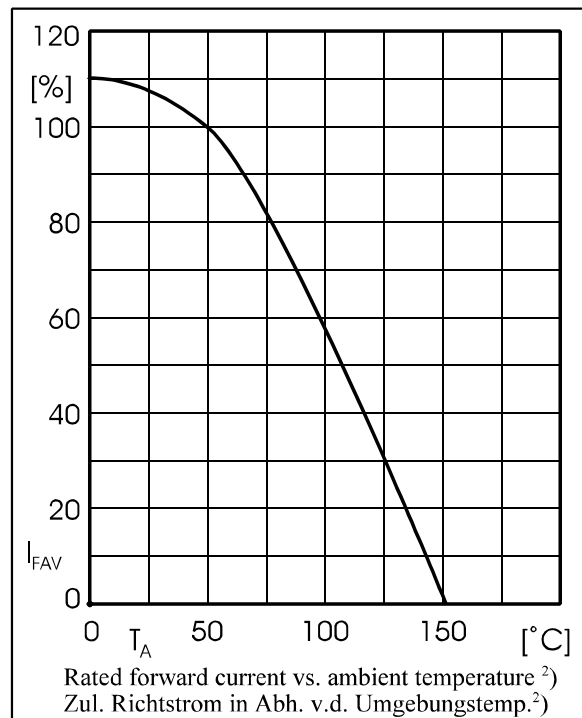
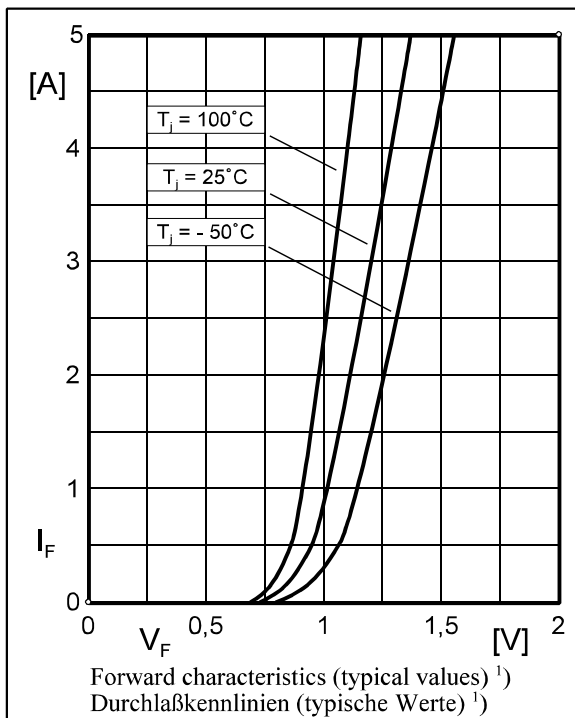
¹⁾ Valid for one branch – Gültig für einen Brückenzweig
²⁾ Valid, if the temperature of the terminals is kept to 100°C
Gültig, wenn die Temperatur der Anschlüsse auf 100°C gehalten wird

Characteristics

Kennwerte

Max. average forward rectified current Dauergrenzstrom	$T_A = 50^\circ\text{C}$	R-load C-load	I_{FAV} I_{FAV}	$1.0\text{ A}^2)$ $0.8\text{ A}^2)$
Forward voltage – Durchlaßspannung	$T_j = 25^\circ\text{C}$	$I_F = 1\text{ A}$	V_F	$< 1.1\text{ V}^1)$
Leakage current – Sperrstrom	$T_j = 25^\circ\text{C}$	$V_R = V_{RRM}$	I_R	$< 10\ \mu\text{A}$
Thermal resistance junction to ambient air Wärmewiderstand Sperrschicht – umgebende Luft			R_{thA}	$< 60\text{ K/W}^2)$

Type Typ	Max. admissible load capacitor Max. zulässiger Ladekondensator $C_L\ [\mu\text{F}]$	Min. required protective resistor Min. erforderl. Schutzwiderstand $R_t\ [\Omega]$
B 40D	5000	0.8
B 80D	2500	1.6
B 125D	1500	2.5
B 250D	800	5.0
B 380D	600	8.0
B 500D	400	10



¹⁾ Valid for one branch – Gültig für einen Brückenweig

²⁾ Valid, if mounted on P.C. board with 25 mm² copper pads at each terminal

Dieser Wert gilt bei Montage auf Leiterplatte mit 25 mm² Kupferbelag (Lötpad) an jedem Anschluß

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