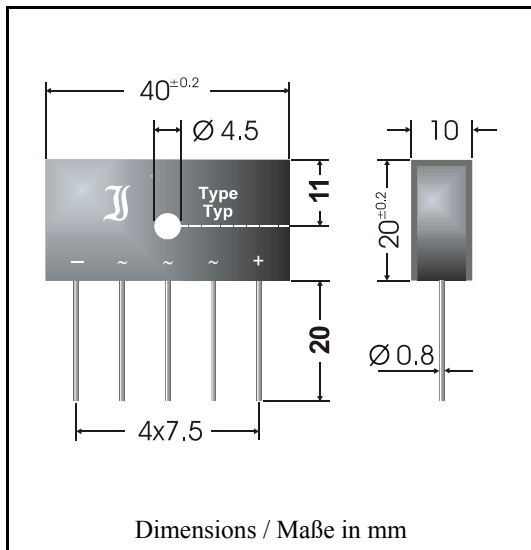


Three-Phase Si-Bridge Rectifiers
Dreiphasen-Si-Brückengleichrichter


Nominal current – Nennstrom	25 A
Repetitive peak reverse voltage	50...1600 V
Periodische Spitzensperrspannung	
Metal case – Metallgehäuse	
Dimensions	40 x 20 x 10 [mm]
Abmessungen	
Weight approx. – Gewicht ca.	35 g
Compound has classification UL94V-0	
Vergußmasse UL94V-0 klassifiziert	
Standard packaging: bulk	see page 22
Standard Lieferform: lose im Karton	s. Seite 22

Maximum ratings
Grenzwerte

Type Typ	max. alternating input voltage max. Eingangswchselspannung V_{VRMS} [V]	Repetitive peak reverse voltage Periodische Spitzensperrspannung V_{RRM} [V] ¹⁾
DBI 25-005	35	50
DBI 25-01	70	100
DBI 25-02	140	200
DBI 25-04	280	400
DBI 25-06	420	600
DBI 25-08	560	800
DBI 25-10	700	1000
DBI 25-12	800	1200
DBI 25-14	900	1400
DBI 25-16	1000	1600

Repetitive peak fwd. current – Period. Spitzenstrom	$f > 15$ Hz	I_{FRM}	100A ²⁾
Peak forward surge current, 50 Hz half sine-wave Stoßstrom für eine 50 Hz Sinus-Halbwelle	$T_A = 25^\circ\text{C}$	I_{FSM}	350 A
Rating for fusing – Grenzlastintegral, $t < 10$ ms	$T_A = 25^\circ\text{C}$	i^2t	550 A ² s
Operating junction temperature – Sperrschichttemperatur		T_j	- 50...+150°C
Storage temperature – Lagerungstemperatur		T_s	- 50...+150°C

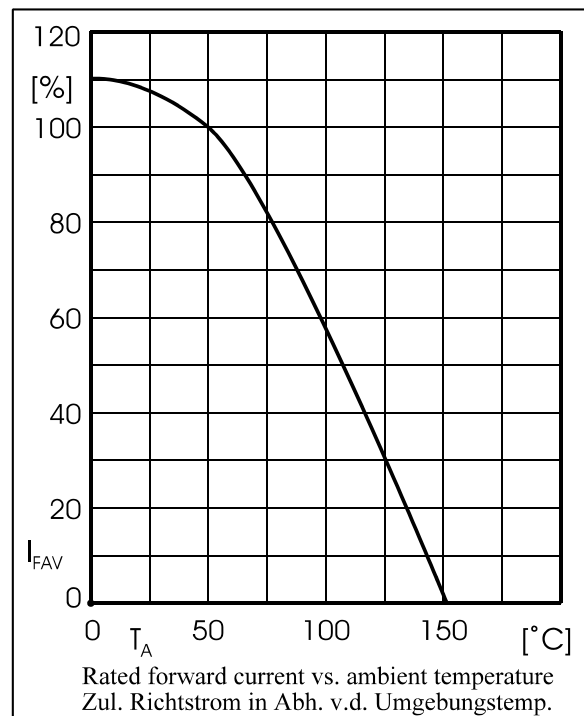
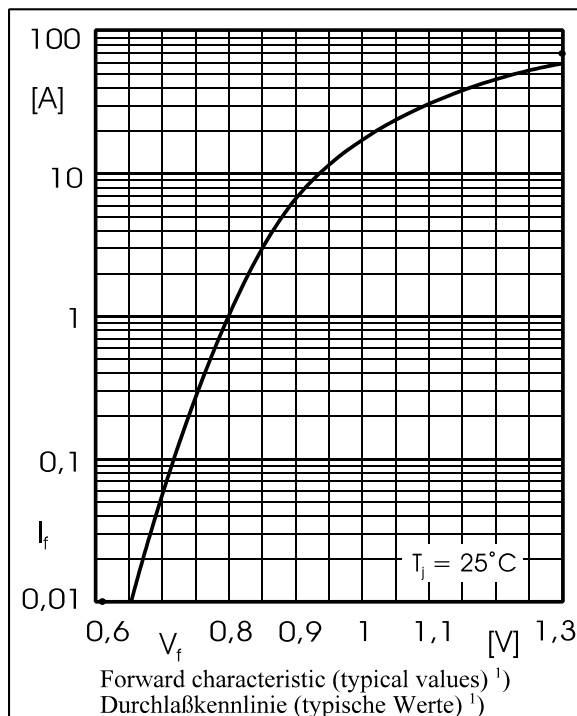
¹⁾ Valid for one branch – Gültig für einen Brückenweig

²⁾ Valid, if the temperature of the case is kept to 120°C – Gültig, wenn die Gehäusetemp. auf 120°C gehalten wird

Characteristics

Kennwerte

Max. current without cooling fin Dauergrenzstrom ohne Kühlblech	$T_A = 50^\circ\text{C}$	R-load C-load	I_{FAV} I_{FAV}	4.0 A 4.0 A
Max. current with cooling fin 300 cm ² Dauergrenzstrom mit Kühlblech 300 cm ²	$T_A = 50^\circ\text{C}$	R-load C-load	I_{FAV} I_{FAV}	25.0 A 25.0 A
Forward voltage – Durchlaßspannung	$T_j = 25^\circ\text{C}$	$I_F = 12.5\text{ A}$	V_F	$< 1.05\text{ V}^1)$
Leakage current – Sperrstrom	$T_j = 25^\circ\text{C}$	$V_R = V_{RRM}$	I_R	$< 10\ \mu\text{A}$
Isolation voltage terminals to case Isolationsspannung Anschlüsse zum Gehäuse			V_{ISO}	$>2500\text{ V}$
Thermal resistance junction to case Wärmewiderstand Sperrschicht – Gehäuse			R_{thC}	$< 3.3\text{ K/W}$
Admissible torque for mounting Zulässiges Anzugsdrehmoment		M4		$18 \pm 10\% \text{ lb.in}$ $2 \pm 10\% \text{ Nm}$



¹⁾ Valid for one branch – Gültig für einen Brückenweig
28.02.2002

This datasheet has been downloaded from:

www.DatasheetCatalog.com

Datasheets for electronic components.



LittleDiode supplies new, hard to find or obsolete electronic components and semiconductors all over the world.

With over two million different components listed you are sure to find the part you need.

Feel free to visit us today at our online store:

LittleDiode.com

Looking forward to providing you with the best possible service.