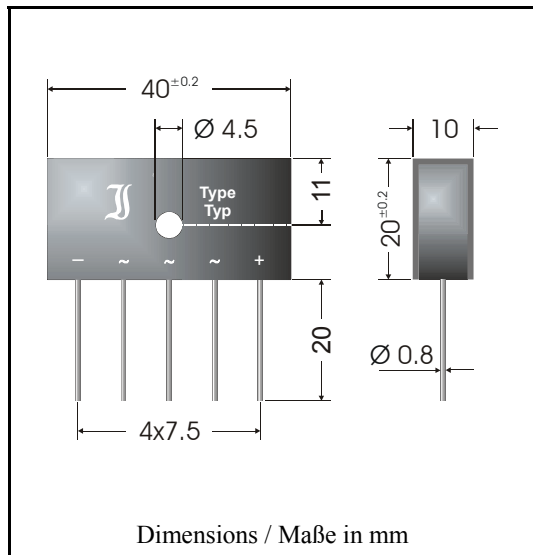


Three-Phase Si-Bridge Rectifiers
Dreiphasen-Si-Brückengleichrichter


Nominal current – Nennstrom	6 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



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 Spitzensperrspannung V_{RRM} [V] ¹⁾
DBI 6-005	35	50
DBI 6-01	70	100
DBI 6-02	140	200
DBI 6-04	280	400
DBI 6-06	420	600
DBI 6-08	560	800
DBI 6-10	700	1000
DBI 6-12	800	1200
DBI 6-14	900	1400
DBI 6-16	1000	1600

Repetitive peak fwd. current – Period. Spitzenstrom	$f > 15$ Hz	I_{FRM}	30 A ²⁾
Peak forward surge current, 50 Hz half sine-wave Stoßstrom für eine 50 Hz Sinus-Halbwellen	$T_A = 25^\circ\text{C}$	I_{FSM}	125 A
Rating for fusing, $t < 10$ ms Grenzlastintegral, $t < 10$ ms	$T_A = 25^\circ\text{C}$	i^2t	60 A ² s

¹⁾ Valid for one branch – Gültig für einen Brückenast

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

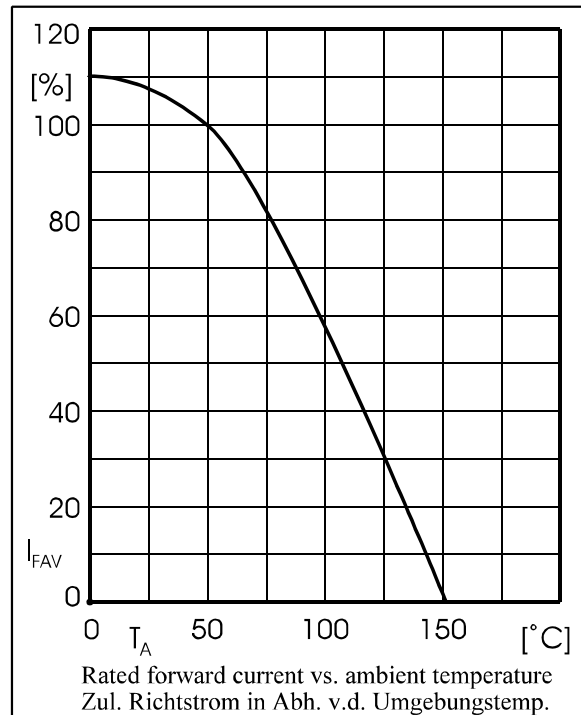
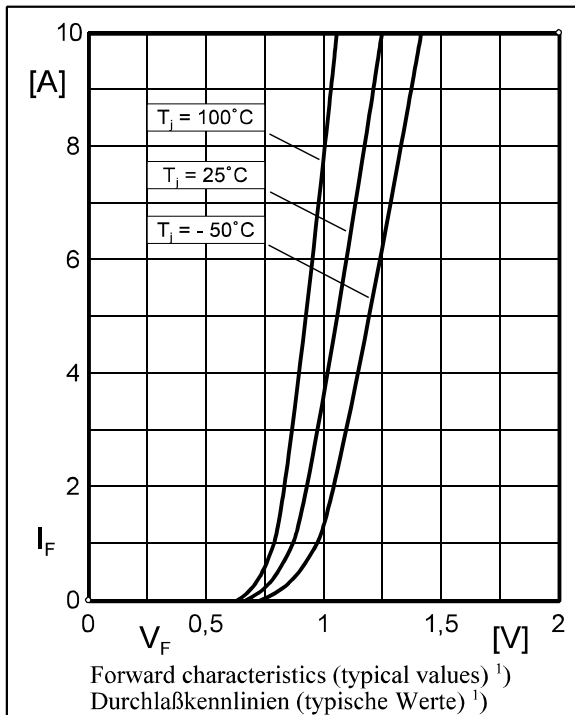
Operating junction temperature – Sperrschichttemperatur
Storage temperature – Lagerungstemperatur

T_j – 50...+150°C
 T_s – 50...+150°C

Characteristics

Kennwerte

Max. current without cooling fin Dauergrenzstrom ohne Kühlblech	$T_A = 50^\circ\text{C}$	R-load C-load	I_{FAV} I_{FAV}	2.0 A 2.0 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}	6.0 A 6.0 A
Forward voltage – Durchlaßspannung	$T_j = 25^\circ\text{C}$	$I_F = 3.0\text{ A}$	V_F	< 1.05 V ¹⁾
Leakage current – Sperrstrom	$T_j = 25^\circ\text{C}$	$V_R = V_{RRM}$	I_R	< 10 µA
Isolation voltage terminals to case Isolationsspannung Anschlüsse zum Gehäuse			V_{ISO}	>2500 V
Thermal resistance junction to case Wärmewiderstand Sperrschicht – Gehäuse			R_{thC}	< 4 K/W
Admissible torque for mounting Zulässiges Anzugsdrehmoment		M4		18 ± 10% lb.in 2 ± 10% Nm



¹⁾ Valid for one branch – Gültig für einen Brückenweig

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Datasheets for electronic components.