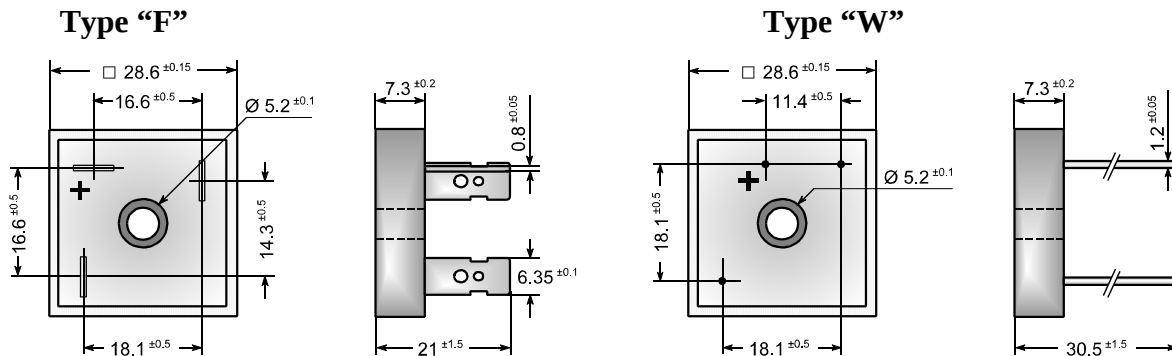


Silicon-Twin Rectifiers
Center tap

Silizium-Doppeldioden
Mittelpunktschaltung



Dimensions / Maße in mm

Nominal current – Nennstrom 30 A

Alternating input voltage – Eingangswechselspannung 60...250 V

Dimensions – Abmessungen 28.6 x 28.6 x 7.3 [mm]
Weight approx. / Gewicht ca.23 g

Plastic case with alu-bottom Kunststoffgehäuse mit Alu-Boden
Casting compound has UL classification 94V-0 Vergußmasse UL94V-0 klassifiziert
Standard packaging: bulk Standard Lieferform: lose im Karton

Maximum ratings

Grenzwerte

Type Typ	Alternating input voltage Eingangswechselspanng. V_{VRMS} [V]	Rep. peak reverse voltage Period. Spitzensperrspanng. V_{RRM} [V] ¹⁾	Surge peak reverse voltage Stoßspitzensperrspannung V_{RSM} [V] ¹⁾
D30 VC20 F/W	60	200	200
D30 VC40 F/W	120	400	400
D30 VC60 F/W	190	600	600
D30 VC80 F/W	250	800	800

Repetitive peak forward current $f > 15$ Hz I_{FRM} 80 A ²⁾
Periodischer Spitzenstrom

Peak forward surge current, 50 Hz half sine-wave $T_A = 25/C$ I_{FSM} 300 A
Stoßstrom für eine 50 Hz Sinus-Halbwellen

Rating for fusing – Grenzlantintegral, $t < 10$ ms $T_A = 25/C$ i^2t 450 A²s

Isolation voltage – Isolationsspannung $t = 1$ min V_{ISO} > 2000 V

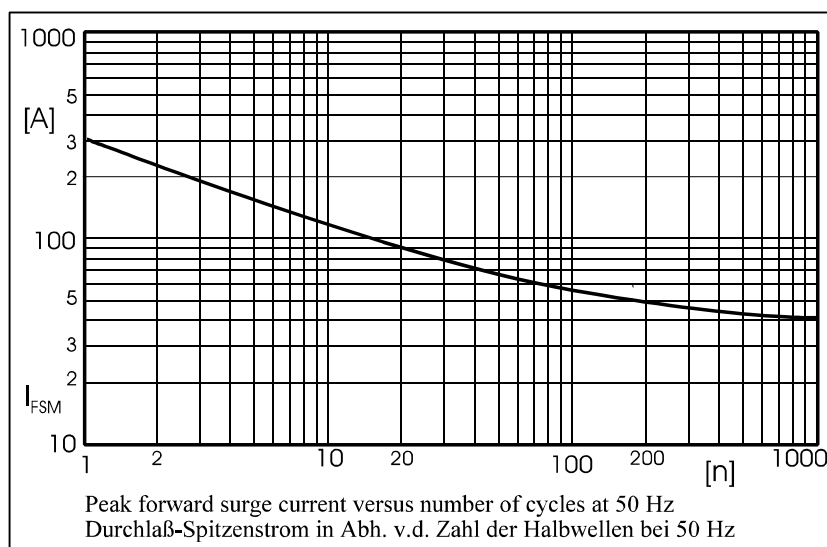
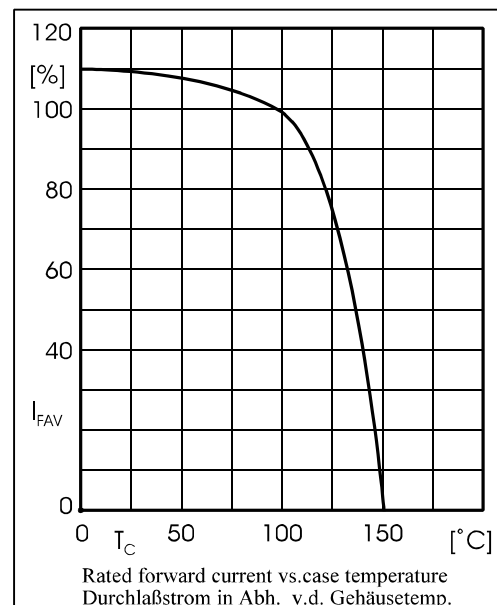
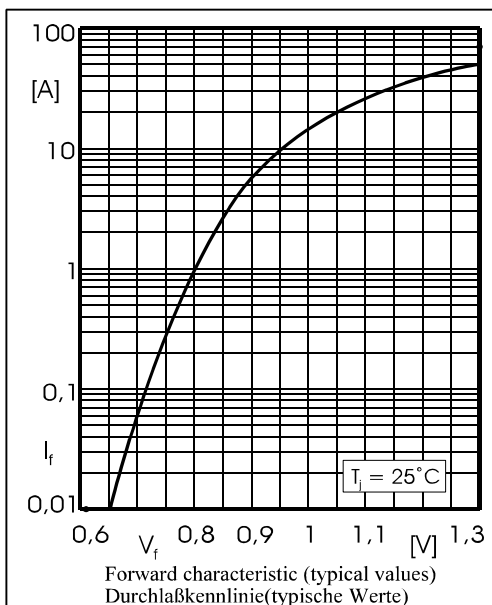
Operating junction temperature – Sperrschichttemperatur T_j – 50...+150/C
Storage temperature – Lagerungstemperatur T_s – 50...+150/C

¹⁾ Valid per diode – Gültig pro Diode

²⁾ Max. case temperature $T_c = 100/C$ – Max. Gehäusetemperatur $T_c = 100/C$

Characteristics**Kennwerte**

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}	30.0 A 26.0 A
Forward voltage – Durchlaßspannung	$T_j = 25/^{\circ}\text{C}$	$I_F = 15 \text{ A}$	V_F	$< 1.05 \text{ V}^{1)}$
Leakage current – Sperrstrom	$T_j = 25/^{\circ}\text{C}$	$V_R = V_{\text{RRM}}$	I_R	$< 25 \text{ : A}$
Thermal resistance junction to case Wärmewiderstand Sperrschicht – Gehäuse			R_{thC}	$< 1.0 \text{ K/W}$
Admissible torque for mounting Zulässiges Anzugsdrehmoment		10-32 UNF M 5		$18 \pm 10\% \text{ lb.in.}$ $2 \pm 10\% \text{ Nm}$

¹⁾ Valid per diode – Gültig pro Diode