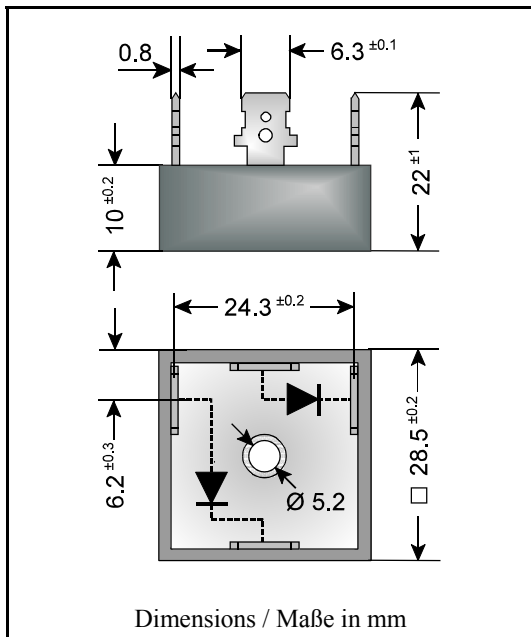


**Silicon-Twin Rectifiers**

**Silizium-Doppeldioden**



Nominal current 60 A  
 Nennstrom  
 Alternating input voltage 60...800 V  
 Eingangswechselspannung  
 Plastic case with alu-bottom  
 Kunststoffgehäuse mit Alu-Boden  
 Dimensions 28.5 x 28.5 x 10 [mm]  
 Abmessungen  
 Weight approx. 23 g  
 Gewicht ca.  
 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	Repetitive peak reverse voltage Periodische Spitzensperrspannung $V_{RRM}$ [V] <sup>1)</sup>	Surge peak reverse voltage Stoßspitzensperrspannung $V_{RRM}$ [V] <sup>1)</sup>
D60 VC20	200	200
D60 VC40	400	400
D60 VC60	600	600
D60 VC80	800	800
D60 VC100	1000	1000
D60 VC120	1200	1200

Repetitive peak forward current Periodischer Spitzenstrom	$f > 15$ Hz	$I_{FRM}$	120 A <sup>2)</sup>
Peak forward surge current, 50 Hz half sine-wave Stoßstrom für eine 50 Hz Sinus-Halbwelle	$T_A = 25^\circ\text{C}$	$I_{FSM}$	450 A
Rating for fusing – Grenzlastintegral, $t < 10$ ms	$T_A = 25^\circ\text{C}$	$i^2t$	1000 A <sup>2</sup> s
Isolation voltage – Isolationsspannung	$t = 1$ min	$V_{ISO}$	$> 2000$ V
Operating junction temperature – Sperrschichttemperatur		$T_j$	$-50...+150^\circ\text{C}$
Storage temperature – Lagerungstemperatur		$T_s$	$-50...+150^\circ\text{C}$

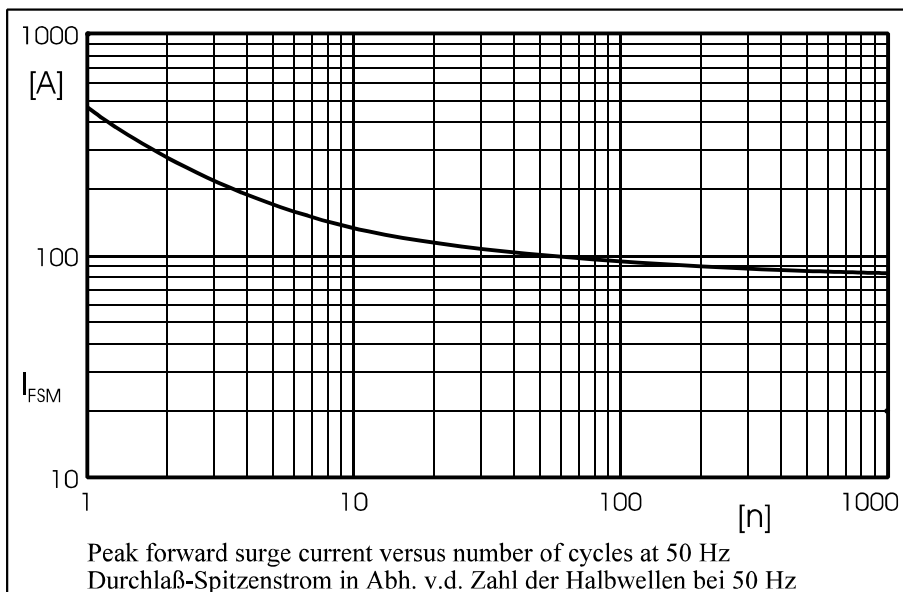
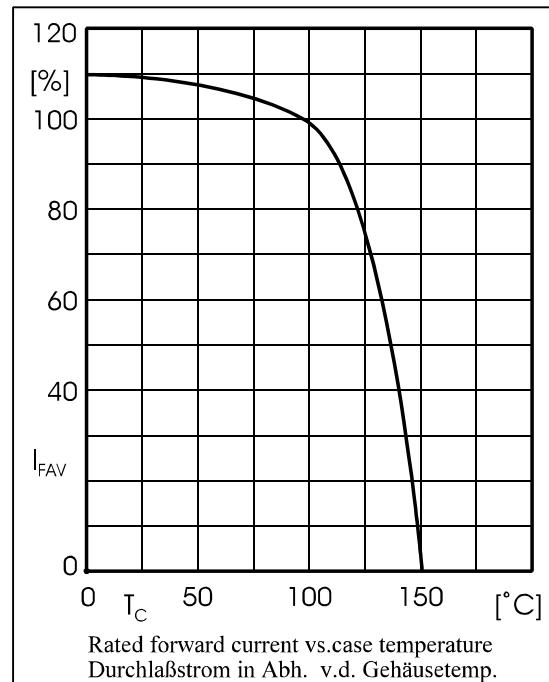
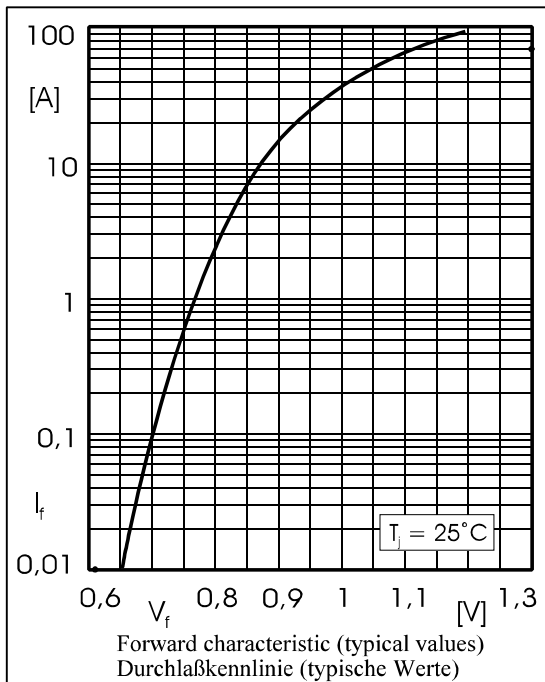
<sup>1)</sup> Valid per diode – Gültig pro Diode

<sup>2)</sup> Max. case temperature  $T_C = 100^\circ\text{C}$  – Max. Gehäusetemperatur  $T_C = 100^\circ\text{C}$

**Characteristics**

**Kennwerte**

Forward voltage – Durchlaßspannung	$T_j = 25^\circ\text{C}$	$I_F = 60\text{ A}$	$V_F$	$< 1.1\text{ V}^1)$
Leakage current – Sperrstrom	$T_j = 25^\circ\text{C}$	$V_R = V_{RRM}$	$I_R$	$< 100\ \mu\text{A}$
Thermal resistance junction to case Wärmewiderstand Sperrschicht – Gehäuse			$R_{thC}$	$< 0.6\text{ K/W}$
Admissible torque for mounting Zulässiges Anzugsdrehmoment		10-32 UNF M 5		$18 \pm 10\%\text{ lb.in.}$ $2 \pm 10\%\text{ Nm}$



<sup>1)</sup> Valid per diode – Gültig pro Diode