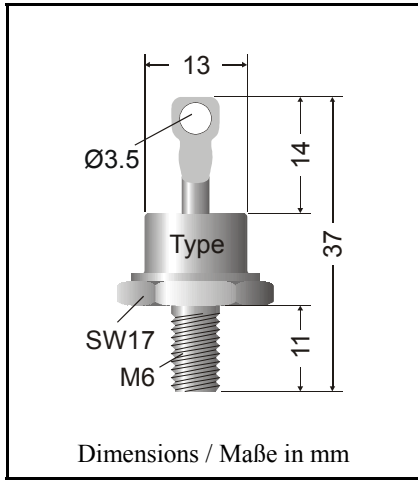


**Silicon-Power Rectifiers**

**Silizium-Leistungs-Gleichrichter**



Nominal current – Nennstrom 35 A  
 Repetitive peak reverse voltage 50...1000 V  
 Periodische Spitzensperrspannung  
 Metal case – Metallgehäuse DO-5  
 Weight approx. – Gewicht ca. 6 g  
 Standard polarity: Cathode to stud / am Gewinde  
 Index R: Anode to stud / am Gewinde (e.g. 1N 1183 A/R)  
 Standard packaging: bulk  
 Standard Lieferform: lose im Karton

**Maximum ratings**

**Grenzwerte**

Type Typ	Repetitive peak reverse voltage Periodische Spitzensperrspannung $V_{RRM}$ [V]	Surge peak reverse voltage Stoßspitzensperrspannung $V_{RSM}$ [V]
1N 1183 = PBY 301	50	60
1N 1184 = PBY 302	100	120
1N 1186 = PBY 303	200	240
1N 1188 = PBY 304	400	480
1N 1190 = PBY 305	600	720
1N 3766 = PBY 306	800	1000
1N 3768 = PBY 307	1000	1200

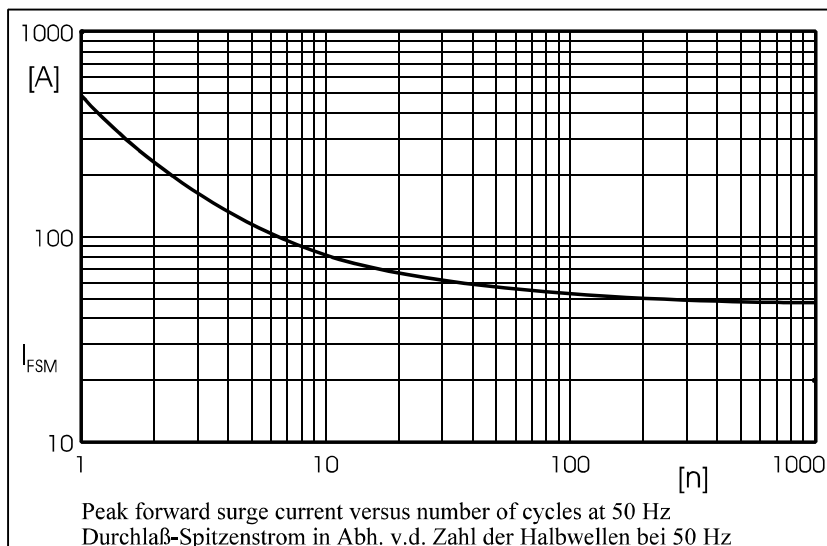
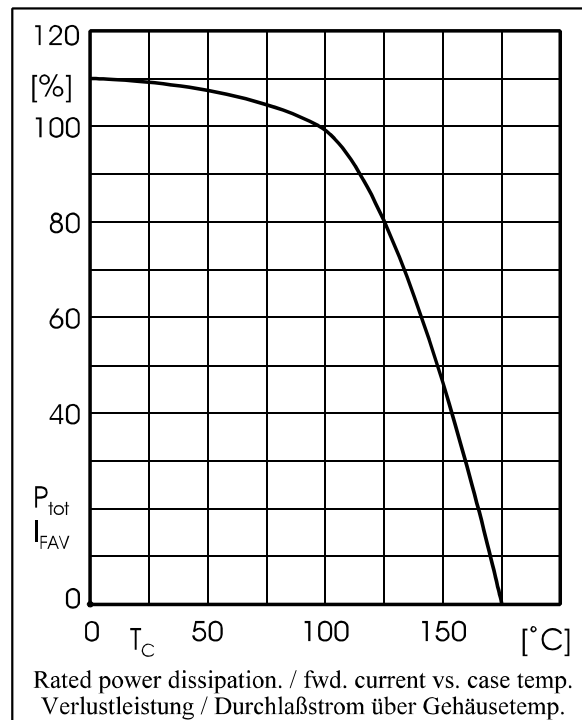
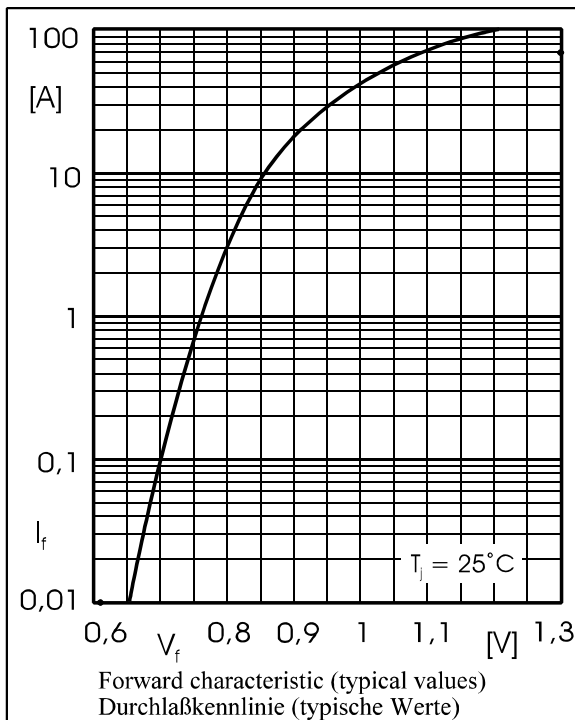
Max. average forward rectified current, R-load Dauergrenzstrom in Einwegschaltung mit R-Last	$T_C = 100^\circ C$	$I_{FAV}$	35 A <sup>1)</sup>
Repetitive peak forward current Periodischer Spitzenstrom	$f > 15$ Hz	$I_{FRM}$	80 A <sup>1)</sup>
Peak forward surge current, 50 Hz half sine-wave Stoßstrom für eine 50 Hz Sinus-Halbwellen	$T_A = 25^\circ C$	$I_{FSM}$	450 A
Peak forward surge current, 60 Hz half sine-wave Stoßstrom für eine 60 Hz Sinus-Halbwellen	$T_A = 25^\circ C$	$I_{FSM}$	500 A
Rating for fusing – Grenzlastintegral, $t < 10$ ms	$T_A = 25^\circ C$	$i^2t$	1000 A <sup>2</sup> s
Operating junction temperature – Sperrschichttemperatur		$T_j$	- 65...+175 °C
Storage temperature – Lagerungstemperatur		$T_s$	- 65...+175 °C

<sup>1)</sup> Valid, if the temp. of the stud is kept to 100°C – Gültig, wenn die Temp. am Gewinde auf 100°C gehalten wird

**Characteristics**

**Kennwerte**

Forward voltage – Durchlaßspannung	$T_j = 25^\circ\text{C}$	$I_F = 100\text{ A}$	$V_F$	< 1.5 V
Leakage current – Sperrstrom	$T_j = 25^\circ\text{C}$	$V_R = V_{RRM}$	$I_R$	< 500 $\mu\text{A}$
Thermal resistance junction to stud Wärmewiderstand Sperrschicht – Gehäuse			$R_{thC}$	< 1 K/W
Recommended mounting torque Empfohlenes Anzugsdrehmoment				26 $\pm$ 10% lb.in. 3 $\pm$ 10% Nm



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