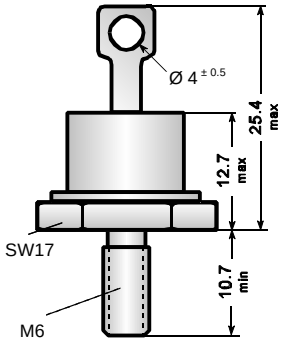
Silicon-Power Rectifiers **Silizium-Leistungs-Gleichrichter**



Dimensions / Maße in mm

Nominal current – Nennstrom	35 A
Repetitive peak reverse voltage Periodische Spitzensperrspannung	50...1000 V
Metal case – Metallgehäuse	DO-5
Weight approx. – Gewicht ca.	6 g
Recommended mounting torque Empfohlenes Anzugsdrehmoment	26 ± 10% lb.in. 3 ± 10% Nm

Standard: Cathode to stud / am Gewinde
Index R: Anode to stud / am Gewinde (e.g. 1N 1183 R)

Maximum ratings **Grenzwerte**

Type Typ		Repetitive peak reverse voltage Periodische Spitzensperrspg. 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°C	I_{FAV}	35 A [1])
Repetitive peak forward current Periodischer Spitzenstrom	f > 15 Hz	I_{FRM}	80 A [1])
Rating for fusing, t < 10 ms Grenzlastintegral, t < 10 ms	T_A = 25°C	i^2t	1000 A^2s
Peak fwd. half sine-wave surge current, T_A = 25°C superimposed on rated load Stoßstrom für eine Sinus-Halbwelle, überlagert bei Nennlast	f = 60 Hz f = 50 Hz	I_{FSM} I_{FSM}	500 A 450 A

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

Operating junction temperature – Sperrschichttemperatur	T_j	– 65…+175°C
Storage temperature – Lagerungstemperatur	T_S	– 65…+175°C

Characteristics **Kennwerte**

Forward voltage Durchlaßspannung	T_j = 25°C	I_F = 100 A	V_F	< 1.5 V
Leakage current Sperrstrom	T_j = 25°C	$V_R = V_{RRM}$	I_R	< 500 µA
Thermal resistance junction to stud Wärmewiderstand Sperrschicht – Gehäuse			R_{thC}	< 1 K/W

littlediode
COMPONENTS FOR ALL

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.