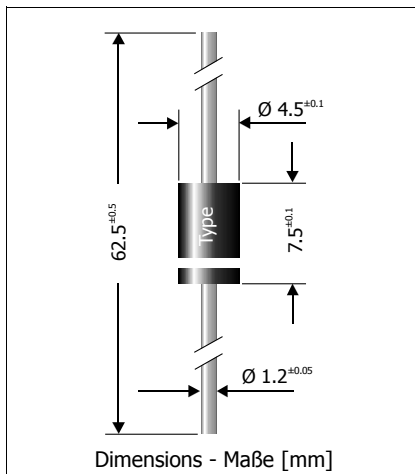


1N5400 ... 1N5408

Si-Rectifiers – Si-Gleichrichter

Version 2005-09-20



| | |
|---|-------------|
| Nominal current Nennstrom | 3 A |
| Repetitive peak reverse voltage Periodische Spitzensperrspannung | 50...1000 V |
| Plastic case Kunststoffgehäuse | ~ DO-201 |
| Weight approx. Gewicht ca. | 0.8 g |
| Plastic material has UL classification 94V-0 Gehäusematerial UL94V-0 klassifiziert | |
| Standard packaging taped in ammo pack Standard Lieferform gegurtet in Ammo-Pack | |

**Maximum ratings****Grenzwerte**

| Type Typ | Repetitive peak reverse voltage Periodische Spitzensperrspannung V_{RRM} [V] | Surge peak reverse voltage Stoßspitzensperrspannung V_{RSM} [V] |
|-------------|--|---|
| 1N5400 | 50 | 50 |
| 1N5401 | 100 | 100 |
| 1N5402 | 200 | 200 |
| 1N5404 | 400 | 400 |
| 1N5406 | 600 | 600 |
| 1N5407 | 800 | 800 |
| 1N5408 | 1000 | 1000 |

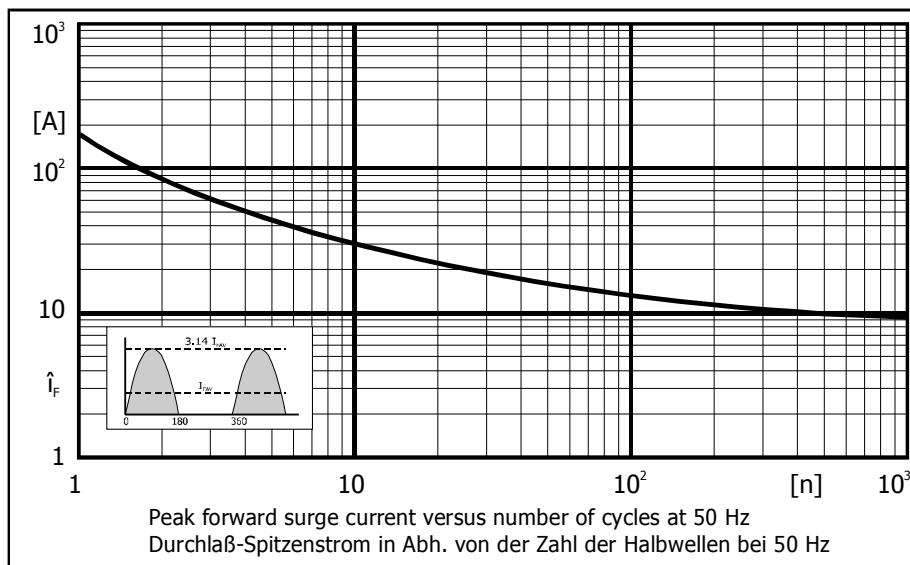
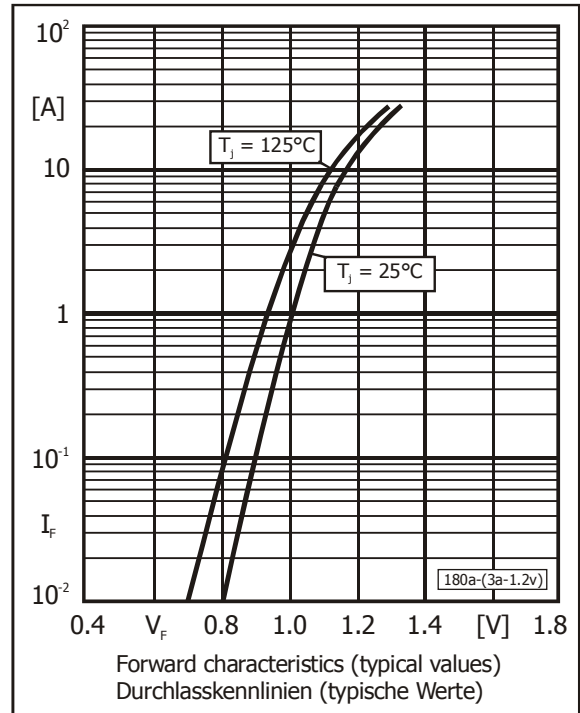
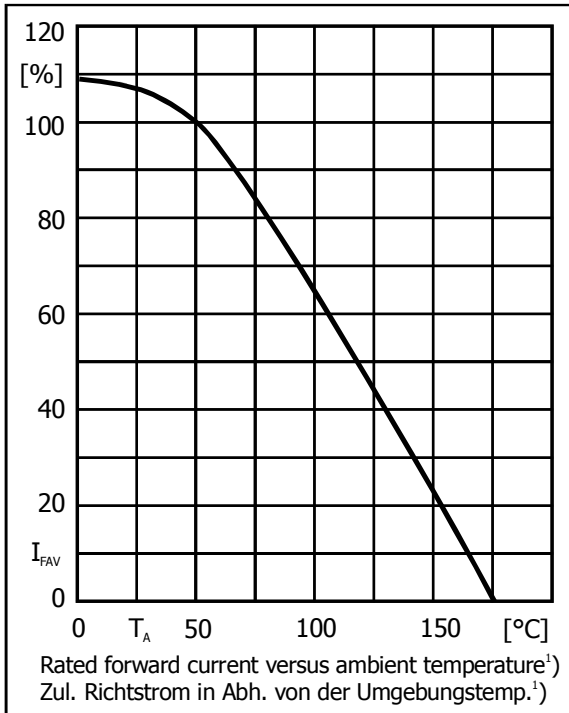
| | | | |
|---|--------------------------|-----------|----------------------|
| Max. average forward rectified current, R-load Dauergrenzstrom in Einwegschaltung mit R-Last | $T_A = 50^\circ\text{C}$ | I_{FAV} | 3 A ¹⁾ |
| Repetitive peak forward current Periodischer Spitzenstrom | $f > 15$ Hz | I_{FRM} | 30 A ¹⁾ |
| Peak forward surge current, 50/60 Hz half sine-wave Stoßstrom für eine 50/60 Hz Sinus-Halbwellen | $T_A = 25^\circ\text{C}$ | I_{FSM} | 180/200 A |
| Rating for fusing, Grenzlasterintegral, $t < 10$ ms | $T_A = 25^\circ\text{C}$ | i^2t | 166 A ² s |
| Junction temperature – Sperrschichttemperatur | | T_j | -50...+175°C |
| Storage temperature – Lagerungstemperatur | | T_s | -50...+175°C |

¹ Valid, if leads are kept at ambient temperature at a distance of 10 mm from case
Gültig, wenn die Anschlussdrähte in 10 mm Abstand von Gehäuse auf Umgebungstemperatur gehalten werden

Characteristics

Kennwerte

| | | | | |
|---|--------------------------|---------------------|-----------|------------------------|
| Forward voltage – Durchlass-Spannung | $T_j = 25^\circ\text{C}$ | $I_F = 3 \text{ A}$ | V_F | < 1.2 V |
| Leakage current – Sperrstrom | $T_j = 25^\circ\text{C}$ | $V_R = V_{RRM}$ | I_R | < 10 μA |
| Thermal resistance junction to ambient air Wärmewiderstand Sperrschicht – umgebende Luft | | | R_{thA} | < 25 K/W ¹⁾ |
| Thermal resistance junction to leads Wärmewiderstand Sperrschicht – Anschlussdraht | | | R_{thL} | < 10 K/W |



1 Valid, if leads are kept at ambient temperature at a distance of 10 mm from case
Gültig, wenn die Anschlussdrähte in 10 mm Abstand von Gehäuse auf Umgebungstemperatur gehalten werden