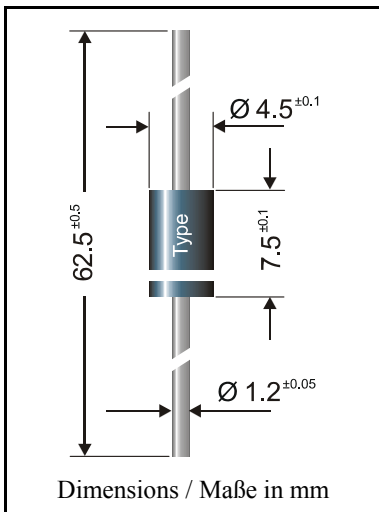


Silicon Rectifiers

Silizium Gleichrichter



| | |
|---------------------------------------------------------------------------------------|-------------------------------|
| Nominal current – Nennstrom | 3 A |
| Repetitive peak reverse voltage Periodische Spitzensperrspannung | 50...1000 V |
| Plastic case Kunststoffgehäuse | ~ DO-201 |
| Weight approx. – Gewicht ca. | 1 g |
| Plastic material has UL classification 94V-0 Gehäusematerial UL94V-0 klassifiziert | |
| Standard packaging taped in ammo pack Standard Lieferform gegurtet in Ammo-Pack | see page 16 siehe Seite 16 |

Maximum ratings

Grenzwerte

| Type Typ | Repetitive peak reverse voltage Periodische Spitzensperrspannung V_{RRM} [V] | Surge peak reverse voltage Stoßspitzensperrspannung V_{RSM} [V] |
|-------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| 1N 5400 | 50 | 50 |
| 1N 5401 | 100 | 100 |
| 1N 5402 | 200 | 200 |
| 1N 5403 | 300 | 300 |
| 1N 5404 | 400 | 400 |
| 1N 5405 | 500 | 500 |
| 1N 5406 | 600 | 600 |
| 1N 5407 | 800 | 800 |
| 1N 5408 | 1000 | 1000 |

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

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

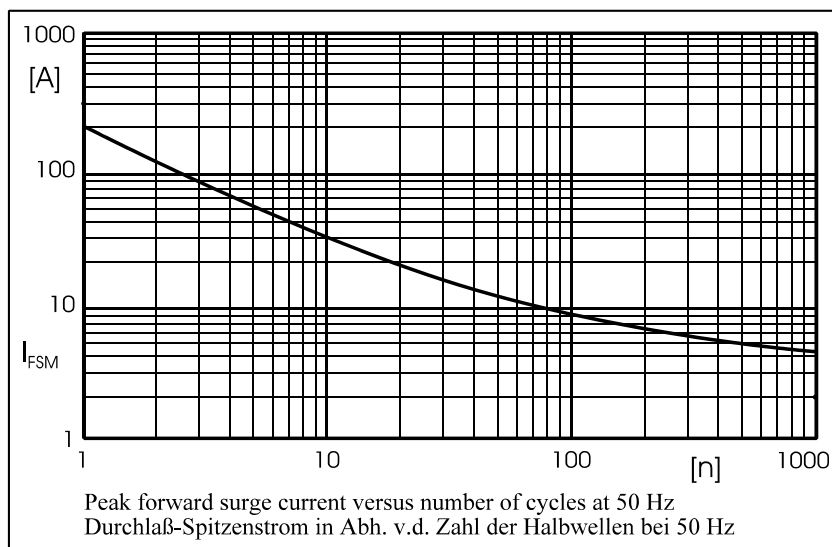
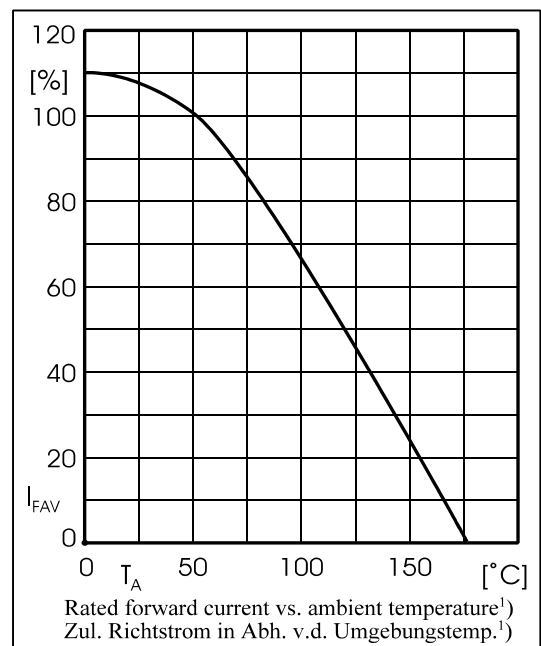
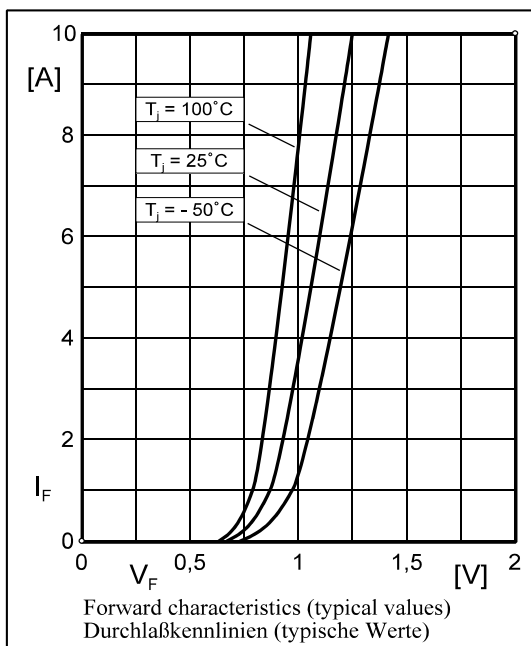
Operating junction temperature – Sperrschichttemperatur
 Storage temperature – Lagerungstemperatur

T_j – 50...+175°C
 T_s – 50...+175°C

Characteristics

Kennwerte

| | | | | |
|---------------------------------------------------------------------------------------------|--------------------------|--------------------|-----------|------------------------|
| Forward voltage – Durchlaßspannung | $T_j = 25^\circ\text{C}$ | $I_F = 3\text{ A}$ | 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⁾ |



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