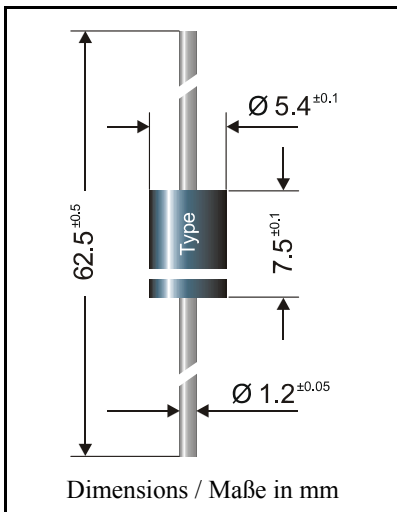


Silicon Rectifiers

Silizium Gleichrichter



| | |
|---|-------------------------------|
| Nominal current – Nennstrom | 5 A |
| Repetitive peak reverse voltage Periodische Spitzensperrspannung | 50...1000 V |
| Plastic case Kunststoffgehäuse | Ø 5.4 x 7.5 [mm] |
| Weight approx. – Gewicht ca. | 1.4 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] |
|-------------|--|---|
| BY 550-50 | 50 | 50 |
| BY 550-100 | 100 | 100 |
| BY 550-200 | 200 | 200 |
| BY 550-400 | 400 | 400 |
| BY 550-600 | 600 | 600 |
| BY 550-800 | 800 | 800 |
| BY 550-1000 | 1000 | 1000 |

| | | | |
|--|--------------------------|-----------|----------------------|
| Max. average forward rectified current, R-load Dauergrenzstrom in Einwertschaltung mit R-Last | $T_A = 50^\circ\text{C}$ | I_{FAV} | 5 A ¹⁾ |
| Repetitive peak forward current Periodischer Spitzenstrom | $f > 15\text{ Hz}$ | I_{FRM} | 60 A ¹⁾ |
| Peak forward surge current, 50 Hz half sine-wave Stoßstrom für eine 50 Hz Sinus-Halbwellen | $T_A = 25^\circ\text{C}$ | I_{FSM} | 300 A |
| Rating for fusing – Grenzlasterintegral, $t < 10\text{ ms}$ | $T_A = 25^\circ\text{C}$ | i^2t | 450 A ² s |
| Operating junction temperature – Sperrschichttemperatur | | T_j | - 50...+175°C |
| Storage temperature – Lagerungstemperatur | | T_s | - 50...+175°C |

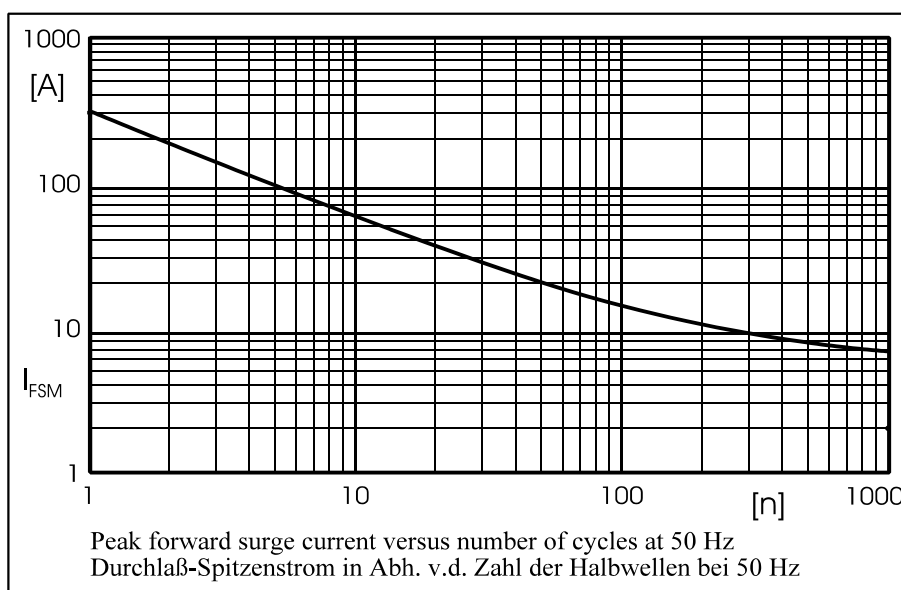
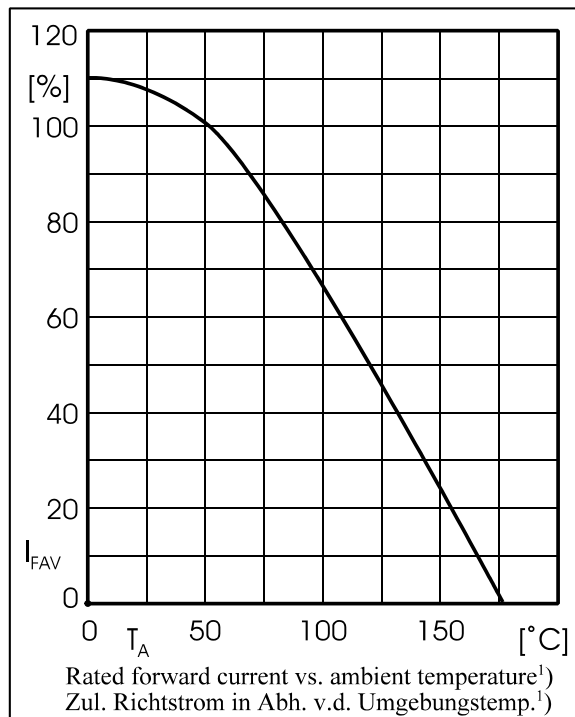
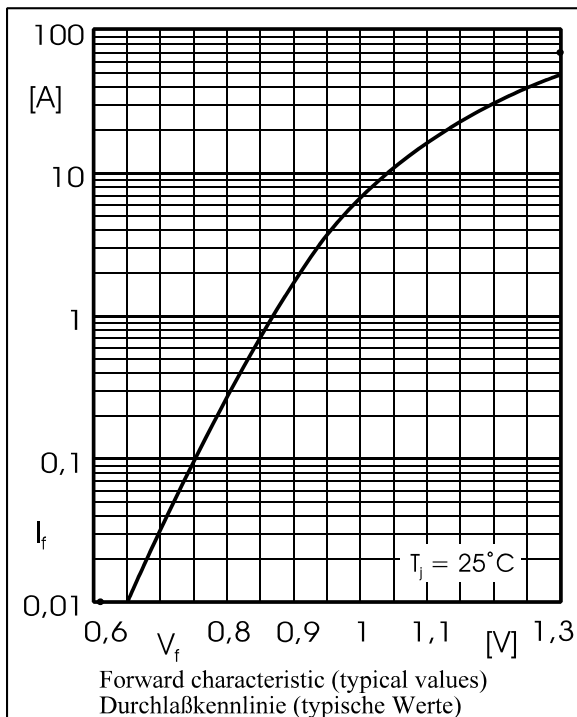
¹⁾ Valid, if leads are kept at ambient temperature at a distance of 10 mm from case

Gültig, wenn die Anschlußdrähte in 10 mm Abstand von Gehäuse auf Umgebungstemperatur gehalten werden

Characteristics

Kennwerte

| | | | | |
|---|--------------------------|--------------------|-----------|----------------------|
| Forward voltage – Durchlaßspannung | $T_j = 25^\circ\text{C}$ | $I_F = 5\text{ A}$ | V_F | $< 1.0\text{ V}$ |
| Leakage current – Sperrstrom | $T_j = 25^\circ\text{C}$ | $V_R = V_{RRM}$ | I_R | $< 20\ \mu\text{A}$ |
| Thermal resistance junction to ambient air Wärmewiderstand Sperrschicht – umgebende Luft | | | R_{thA} | $< 25\text{ K/W}^1)$ |



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