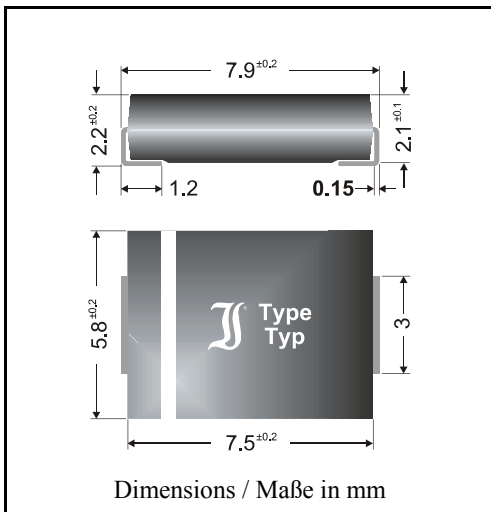


Surface Mount Schottky-Rectifiers

**Schottky-Gleichrichter
für die Oberflächenmontage**



| | |
|---|-------------------------------|
| Nominal current – Nennstrom | 3 A |
| Repetitive peak reverse voltage Periodische Spitzensperrspannung | 20...100 V |
| Plastic case Kunststoffgehäuse | ~ SMC ~ DO-214AB |
| Weight approx. – Gewicht ca. | 0.21 g |
| Plastic material has UL classification 94V-0 Gehäusematerial UL94V-0 klassifiziert | |
| Standard packaging taped and reeled Standard Lieferform gegurtet auf Rolle | see page 18 siehe Seite 18 |

Maximum ratings

Grenzwerte

| Type Typ | Repetitive peak reverse voltage Periodische Spitzensperrspg. V_{RRM} [V] | Surge peak reverse voltage Stoßspitzensperrspannung V_{RSM} [V] | Forward voltage Durchlaßspannung V_F [V] ¹⁾ |
|-------------|--|---|--|
| SK 32 | 20 | 20 | < 0.50 |
| SK 33 | 30 | 30 | < 0.50 |
| SK 34 | 40 | 40 | < 0.50 |
| SK 35 | 50 | 50 | < 0.75 |
| SK 36 | 60 | 60 | < 0.75 |
| SK 38 | 80 | 80 | < 0.85 |
| SK 310 | 100 | 100 | < 0.85 |

| | | | |
|---|---------------------------|-----------|---------------------|
| Max. average forward rectified current, R-load Dauergrenzstrom in Einwegschtung mit R-Last | $T_T = 100^\circ\text{C}$ | I_{FAV} | 3 A |
| Repetitive peak forward current Periodischer Spitzenstrom | $f > 15\text{ Hz}$ | I_{FRM} | 20 A ²⁾ |
| Peak forward surge current, 50 Hz half sine-wave Stoßstrom für eine 50 Hz Sinus-Halbwell | $T_A = 25^\circ\text{C}$ | I_{FSM} | 100 A |
| Rating for fusing, $t < 10\text{ ms}$ Grenzlastintegral, $t < 10\text{ ms}$ | $T_A = 25^\circ\text{C}$ | i^2t | 50 A ² s |

¹⁾ $I_F = 3\text{ A}$, $T_A = 25^\circ\text{C}$

²⁾ Max. temperature of the terminals $T_T = 100^\circ\text{C}$ – Max. Temperatur der Anschlüsse $T_T = 100^\circ\text{C}$

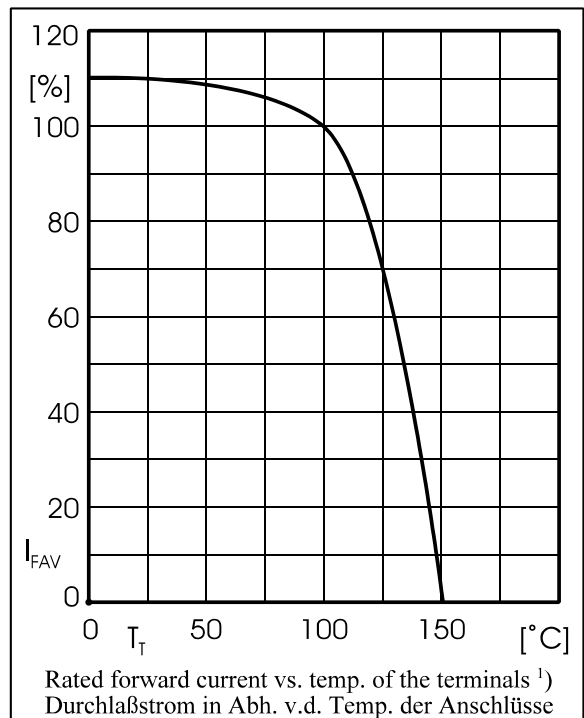
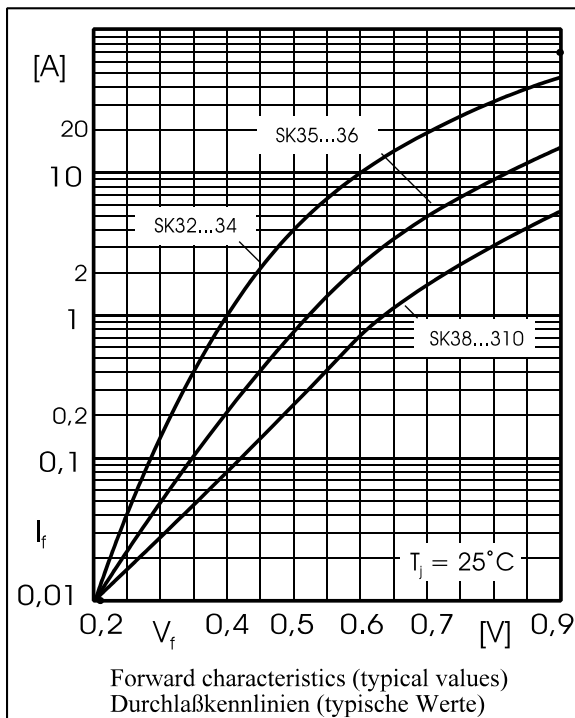
Operating junction temperature – Sperrschichttemperatur
 Storage temperature – Lagerungstemperatur

T_j – 50...+150°C
 T_s – 50...+150°C

Characteristics

Kennwerte

| | | | | |
|---|---------------------------|-----------------|-----------|------------------------|
| Leakage current – Sperrstrom | $T_j = 25^\circ\text{C}$ | $V_R = V_{RRM}$ | I_R | < 0.5 mA |
| | $T_j = 100^\circ\text{C}$ | $V_R = V_{RRM}$ | I_R | < 20.0 mA |
| Thermal resistance junction to ambient air Wärmewiderstand Sperrschicht – umgebende Luft | | | R_{thA} | < 50 K/W ¹⁾ |
| Thermal resistance junction to terminal Wärmewiderstand Sperrschicht – Anschluß | | | R_{thT} | < 10 K/W |



¹⁾ Mounted on P.C. board with 50 mm² copper pads at each terminal
 Montage auf Leiterplatte mit 50 mm² Kupferbelag (Löt-pad) an jedem Anschluß

This datasheet has been downloaded from:

www.DatasheetCatalog.com

Datasheets for electronic components.