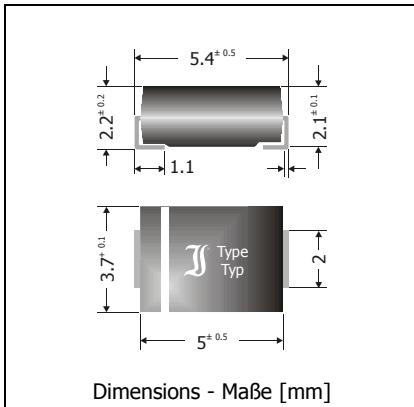


SK52 ... SK510

Surface Mount Schottky Rectifiers Schottky-Gleichrichter für die Oberflächenmontage

Version 2006-07-04



| | |
|---|---------------------|
| Nominal current – Nennstrom | 5 A |
| Repetitive peak reverse voltage Periodische Spitzensperrenschnung | 20...100 V |
| Plastic case Kunststoffgehäuse | ~ SMB ~ DO-214AA |
| Weight approx. – Gewicht ca. | 0.1 g |
| Plastic material has UL classification 94V-0 Gehäusematerial UL94V-0 klassifiziert | |
| Standard packaging taped and reeled Standard Lieferform gegurtet auf Rolle | |



Maximum ratings

Grenzwerte

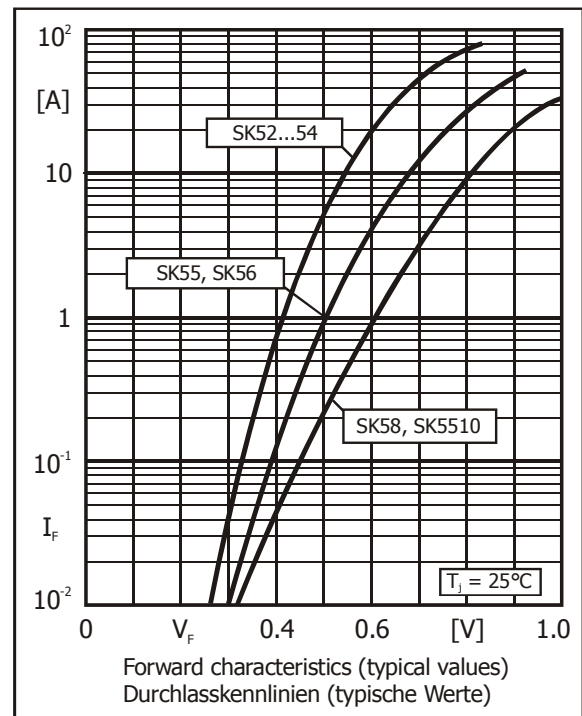
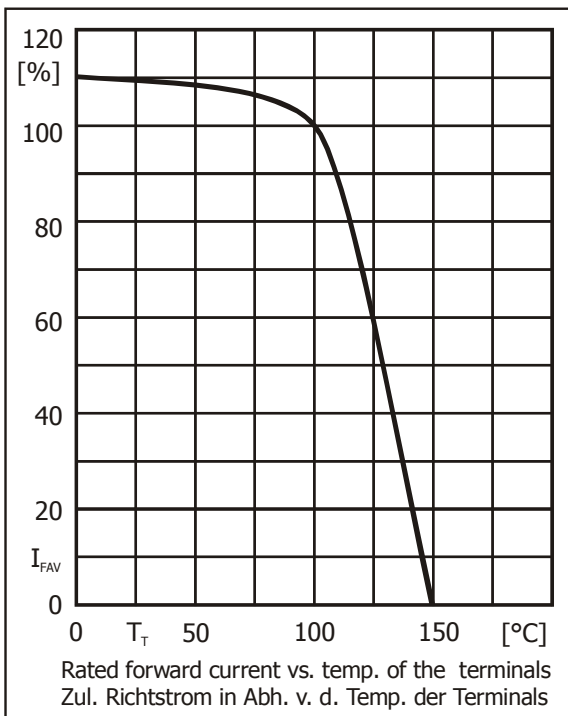
| Type Typ | Repetitive peak reverse voltage Periodische Spitzensperrenschnung V_{RRM} [V] | Surge peak reverse voltage Stoßspitzensperrenschnung V_{RSM} [V] | Forward voltage Durchlass-Spannung V_F [V] ¹⁾ |
|-------------|---|--|--|
| SK52 | 20 | 20 | < 0.55 |
| SK53 | 30 | 30 | < 0.55 |
| SK54 | 40 | 40 | < 0.55 |
| SK55 | 50 | 50 | < 0.68 |
| SK56 | 60 | 60 | < 0.68 |
| SK58 | 80 | 80 | < 0.83 |
| SK510 | 100 | 100 | < 0.83 |

| | | | |
|---|----------------------------|------------------------|--|
| Max. average forward rectified current, R-load Dauergrenzstrom in Einwegschaltung mit R-Last | SK52...SK56 SK58, SK510 | I_{FAV} I_{FAV} | 5 A ²⁾ 5 A ³⁾ |
| Repetitive peak forward current Periodischer Spitzenstrom | $f > 15$ Hz | I_{FRM} | 20 A ²⁾ |
| Peak forward surge current, 50/60 Hz half sine-wave Stoßstrom für eine 50/60 Hz Sinus-Halbwell | $T_A = 25^\circ\text{C}$ | I_{FSM} | 100/110 A |
| Rating for fusing, $t < 10$ ms Grenzlastintegral, $t < 10$ ms | $T_A = 25^\circ\text{C}$ | i^2t | 50 A ² s |
| Operating junction temperature – Sperrschichttemperatur | T_j | | -50...+150°C |
| Storage temperature – Lagerungstemperatur | T_s | | -50...+150°C |

1 $I_F = 5$ A, $T_j = 25^\circ\text{C}$ 2 Max. temperature of the terminals $T_T = 100^\circ\text{C}$ – Max. Temperatur der Anschlüsse $T_T = 100^\circ\text{C}$ 3 Max. temperature of the terminals $T_T = 85^\circ\text{C}$ – Max. Temperatur der Anschlüsse $T_T = 85^\circ\text{C}$

Characteristics
Kennwerte

| | | | | |
|---|---|------------------------------------|----------------|--------------------------------|
| Leakage current Sperrstrom | $T_j = 25^\circ\text{C}$ $T_j = 100^\circ\text{C}$ | $V_R = V_{RRM}$ $V_R = V_{RRM}$ | I_R I_R | < 150 μA < 20 mA |
| Thermal resistance junction to ambient air Wärmewiderstand Sperrschicht – umgebende Luft | | | R_{thA} | < 45 K/W ¹⁾ |
| Thermal resistance junction to terminal Wärmewiderstand Sperrschicht – Anschluss | | | R_{thT} | < 15 K/W |



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