

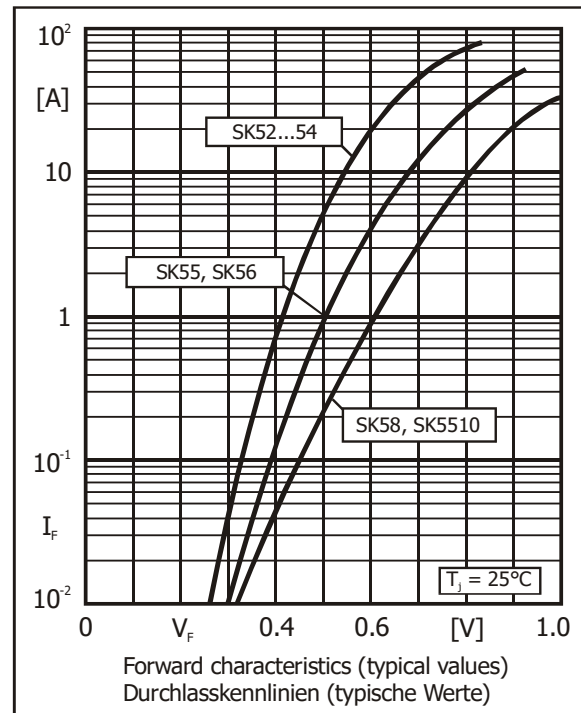
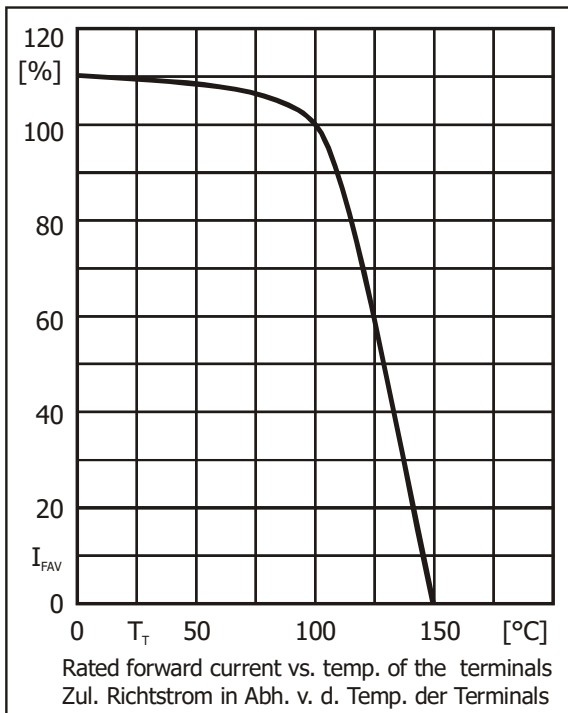
# Characteristics

# Kennwerte

| Type<br>Typ         | Forward voltage<br>Durchlass-Spannung |             |         | Junction capacitance<br>Sperrschichtkapazität |             |
|---------------------|---------------------------------------|-------------|---------|-----------------------------------------------|-------------|
|                     | $V_F$ [V]                             | @ $I_F$ [A] | @ $T_j$ | $C_j$ [pF]                                    | @ $V_R$ [V] |
| SK52SMC ... SK54SMC | < 0.55                                | 5           | 25°C    | typ. 250                                      | 4           |
| SK55SMC, SK56SMC    | < 0.68                                | 5           | 25°C    | typ. 250                                      | 4           |
| SK58SMC, SK510SMC   | < 0.88                                | 5           | 25°C    | typ. 200                                      | 4           |

|                                                                                     |                                                       |                 |           |                                |
|-------------------------------------------------------------------------------------|-------------------------------------------------------|-----------------|-----------|--------------------------------|
| Leakage current<br>Sperrstrom                                                       | $T_j = 25^\circ\text{C}$<br>$T_j = 100^\circ\text{C}$ | $V_R = V_{RRM}$ | $I_R$     | < 150 $\mu\text{A}$<br>< 20 mA |
| Thermal resistance junction to ambient<br>Wärmewiderstand Sperrschicht – Umgebung   |                                                       |                 | $R_{thA}$ | < 45 K/W <sup>1)</sup>         |
| Thermal resistance junction to terminal<br>Wärmewiderstand Sperrschicht – Anschluss |                                                       |                 | $R_{thT}$ | < 10 K/W                       |



**Disclaimer:** See data book page 2 or [website](#)  
**Haftungssausschluss:** Siehe Datenbuch Seite 2 oder [Internet](#)

1 Mounted on P.C. board with 50 mm<sup>2</sup> copper pads at each terminal  
Montage auf Leiterplatte mit 50 mm<sup>2</sup> Kupferbelag (Lötpad) an jedem Anschluss