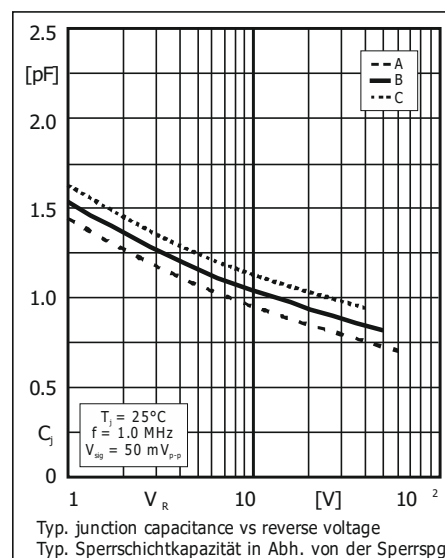
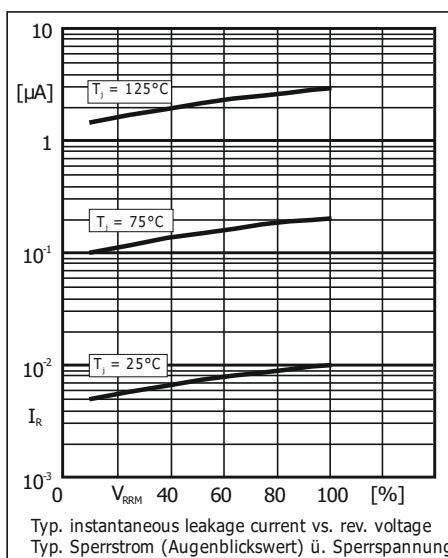
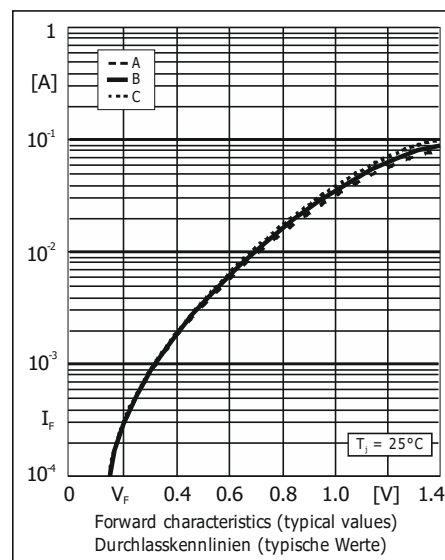
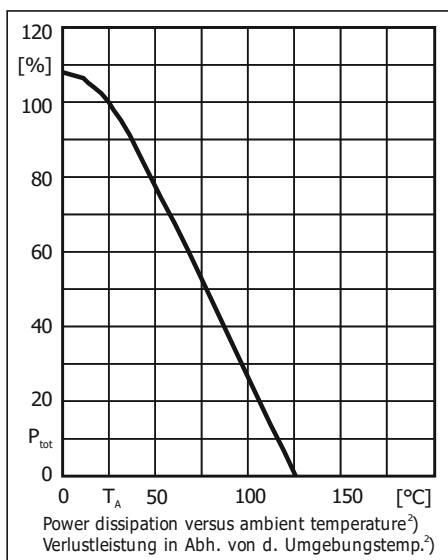


# Characteristics

# Kennwerte

|                                                                                   |               |                                                                                   |                                                       |           | SD101AW                                | SD101BW                                | SD101CW                                |
|-----------------------------------------------------------------------------------|---------------|-----------------------------------------------------------------------------------|-------------------------------------------------------|-----------|----------------------------------------|----------------------------------------|----------------------------------------|
| Forward voltage<br>Durchlass-Spannung                                             | <sup>1)</sup> | $T_j = 25^\circ\text{C}$                                                          | $I_F = 1\text{ mA}$<br>$15\text{ mA}$                 | $V_F$     | $< 0.41\text{ V}$<br>$< 1.00\text{ V}$ | $< 0.40\text{ V}$<br>$< 0.95\text{ V}$ | $< 0.39\text{ V}$<br>$< 0.90\text{ V}$ |
| Leakage current<br>Sperrstrom                                                     | <sup>1)</sup> | $T_j = 25^\circ\text{C}$                                                          | $V_R = 30\text{ V}$<br>$40\text{ V}$<br>$50\text{ V}$ | $I_R$     | –<br>–<br>$< 200\text{ nA}$            | –<br>$< 200\text{ nA}$<br>–            | $< 200\text{ nA}$<br>–<br>–            |
| Typ. junction capacitance – Typ. Sperrschichtkap.                                 |               |                                                                                   | $V_R = 0\text{ V}$ , $f = 1\text{ Mhz}$               | $C_j$     | 2.0 pF                                 | 2.1 pF                                 | 2.2 pF                                 |
| Reverse recovery time<br>Sperrverzögerung                                         |               | $I_F = 5\text{ mA} \rightarrow I_R = 5\text{ mA} \rightarrow I_R = 0.5\text{ mA}$ |                                                       | $t_{rr}$  | typ. 1 ns                              |                                        |                                        |
| Thermal resistance junction to ambient<br>Wärmewiderstand Sperrschicht – Umgebung |               |                                                                                   |                                                       | $R_{thA}$ | $< 300\text{ K/W}^2$                   |                                        |                                        |



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

- 1 Tested with pulses  $t_p = 300\text{ }\mu\text{s}$ , duty cycle  $\leq 2\%$  – Gemessen mit Impulsen  $t_p = 300\text{ }\mu\text{s}$ , Schaltverhältnis  $\leq 2\%$
- 2 Mounted with  $3\text{ mm}^2$  copper pads at each terminal – Montage mit  $3\text{ mm}^2$  Kupferbelag (Lötpad) an jedem Anschluss