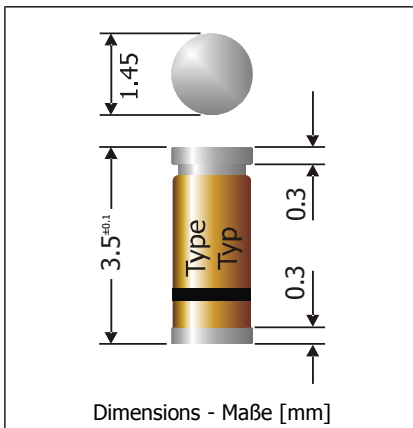


LL101B ... LL101C

Surface Mount Si-Schottky Diodes Si-Schottky-Dioden für die Oberflächenmontage

Version 2013-04-30



| | |
|-------------------------------------------------------------------------------|-----------|
| Nominal current Nennstrom | 15 mA |
| Repetitive peak reverse voltage Periodische Spitzensperrspannung | 40...50 V |
| Glass case MiniMELF Glasgehäuse MiniMELF | SOD-80C |
| Weight approx. Gewicht ca. | 0.04g |
| Standard packaging taped and reeled Standard Lieferform gegurtet auf Rolle | |



Maximum ratings and characteristics

Grenz- und Kennwerte

| Type Typ | Repetitive peak reverse voltage Periodische Spitzensperrspannung V_{RRM} [V] | Forward voltage Durchlass-Spannung V_F [V] / $I_F = 1$ mA | V_F [V] / $I_F = 15$ mA |
|-------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------|---------------------------|
| LL101C | 40 | < 0.39 | < 0.9 |
| LL101B | 50 | < 0.4 | < 0.95 |

| | | | | |
|------------------------------------------------------------------------------------------------------------------|--------------------------|------------------------------|------------------------------|----------------------|
| Power dissipation Verlustleistung | $T_A = 25^\circ\text{C}$ | P_{tot} | 400 mW ¹⁾ | |
| Peak forward surge current, 10 μs square pulse Stoßstrom für einen 10 μs Rechteckimpuls | $T_A = 25^\circ\text{C}$ | I_{FSM} | 2 A | |
| Leakage current, $T_j = 25^\circ\text{C}$ Sperrstrom, $T_j = 25^\circ\text{C}$ | LL101C LL101B | $V_R = 30$ V $V_R = 40$ V | I_R I_R | < 200 nA < 200 nA |
| Max. junction capacitance – Max. Sperrschichtkapazität $V_R = 0$ V, $f = 1$ MHz | | C_j | 2.2 pF | |
| Reverse recovery time – Sperrverzögerung $I_F = 5$ mA through/über $I_R = 5$ mA to $I_R = 0.5$ mA | | t_{rr} | typ. 1 ns | |
| Junction temperature – Sperrschichttemperatur Storage temperature – Lagerungstemperatur | | T_j T_S | -55...+200°C -55...+200°C | |
| Thermal Resistance Junction – Ambient air Wärmewiderstand Sperrschicht – umgebende Luft | | R_{thA} | <300 K/W ¹⁾ | |

1 Valid, if terminals are kept at ambient temperature
Gültig, wenn die Anschlüsse auf Umgebungstemperatur gehalten werden