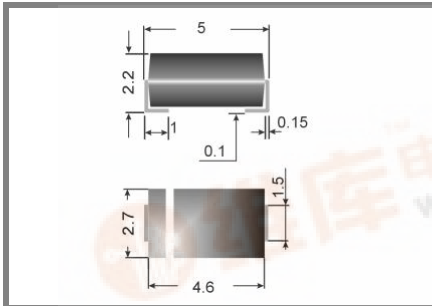


SK 12 ... SK 110



Surface mount diode

Schottky barrier rectifiers diodes

SK 12...SK 110

Forward Current: 1 A

Reverse Voltage: 20 to 100 V

Features

- Max. solder temperature: 260°C
- Plastic material has UL classification 94V-0

Mechanical Data

- Plastic case DO-214AC / SMA
- Weight approx.: 0,07 g
- Terminals: plated terminals solderable per MIL-STD-750
- Mounting position: any
- Standard packaging: 7500 pieces per reel

1) Max. temperature of the terminals $T_T = 100\text{ °C}$

2) $I_F = 1\text{ A}$, $T_A = 25\text{ °C}$

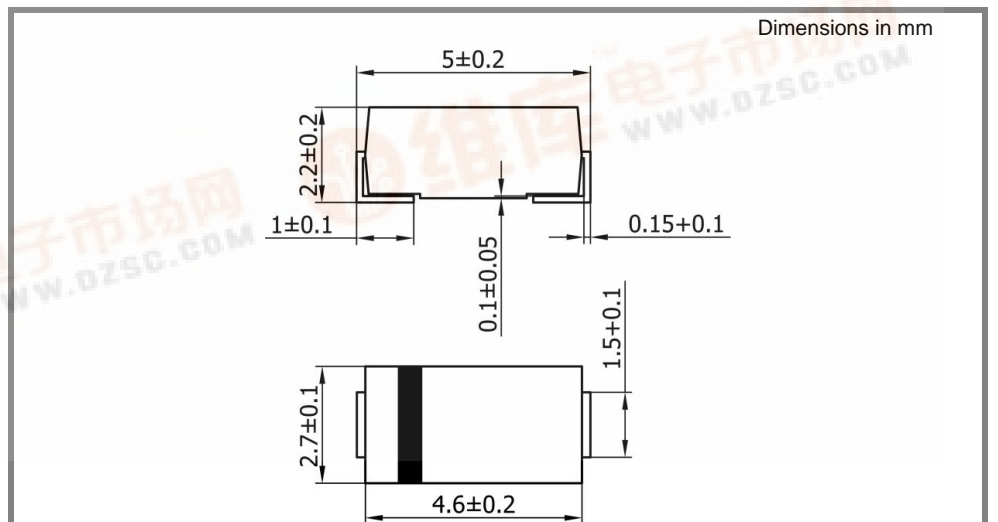
3) $T_A = 25\text{ °C}$

4) Mounted on P.C. board with 25 mm² copper pads at each terminal

| Type | Polarity color band | Repetitive peak reverse voltage V_{RRM} V | Surge peak reverse voltage V_{RSM} V | Maximum forward voltage $T_j = 25\text{ °C}$ $I_F = 1\text{ A}$ $V_F^{2)}$ V | Maximum reverse recovery time $I_F = -\text{A}$ $I_R = -\text{A}$ $I_{RR} = -\text{A}$ t_{rr} ns |
|--------|---------------------|---|--|--|---|
| SK 12 | - | 20 | 20 | 0,5 | - |
| SK 13 | - | 30 | 30 | 0,5 | - |
| SK 14 | - | 40 | 40 | 0,5 | - |
| SK 15 | - | 50 | 50 | 0,7 | - |
| SK 16 | - | 60 | 60 | 0,7 | - |
| SK 18 | - | 80 | 80 | 0,85 | - |
| SK 110 | - | 100 | 100 | 0,85 | - |

| Absolute Maximum Ratings | | $T_c = 25\text{ °C}$, unless otherwise specified | |
|--------------------------|---|---|------------------|
| Symbol | Conditions | Values | Units |
| I_{FAV} | Max. averaged fwd. current, R-load, $T_T = 100\text{ °C}$ | 1 | A |
| I_{FRM} | Repetitive peak forward current $f > 15\text{ Hz}^1)$ | 6 | A |
| I_{FSM} | Peak fwd. surge current 50 Hz half sinus-wave ³⁾ | 30 | A |
| I^2t | Rating for fusing, $t < 10\text{ ms}^3)$ | 4,5 | A ² s |
| R_{thA} | Max. thermal resistance junction to ambient ⁴⁾ | 70 | K/W |
| R_{thT} | Max. thermal resistance junction to terminals | 30 | K/W |
| T_j | Operating junction temperature | -50...+150 | °C |
| T_s | Storage temperature | -50...+150 | °C |

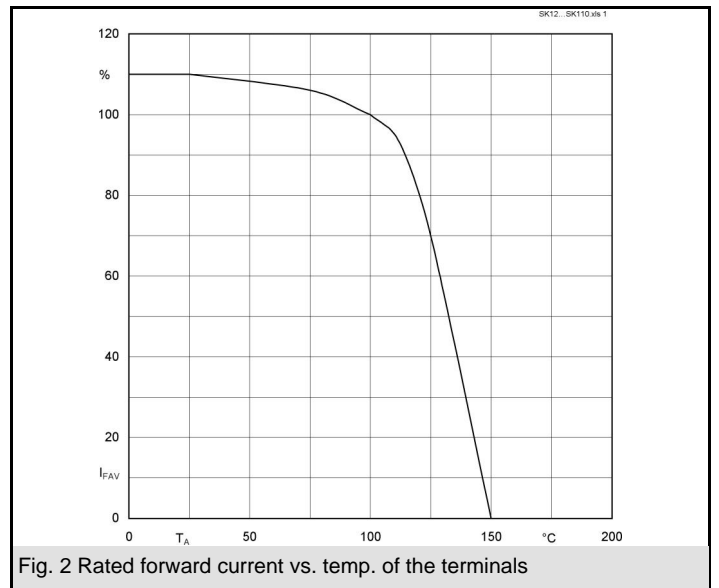
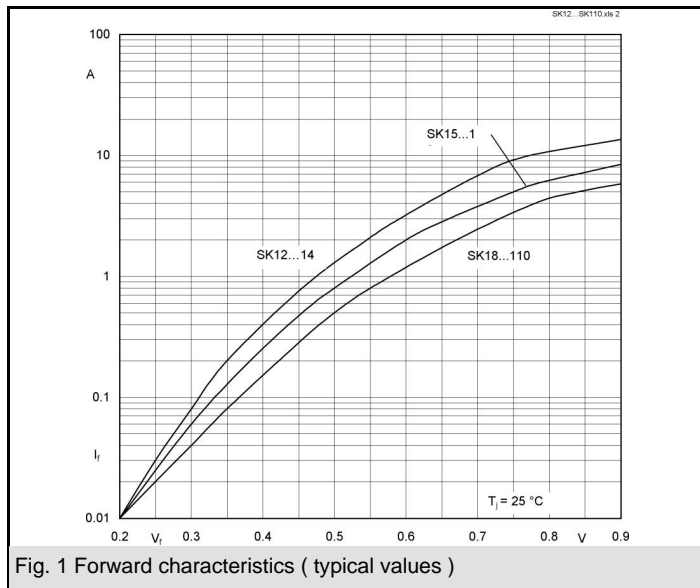
| Characteristics | | $T_c = 25\text{ °C}$, unless otherwise specified | |
|-----------------|---|---|----------|
| Symbol | Conditions | Values | Units |
| I_R | Maximum leakage current, $T_j = 25\text{ °C}$; $V_R = V_{RRM}$ $T_j = 100\text{ °C}$; $V_R = V_{RRM}$ | <0,5 <5,0 | mA mA |
| C_j | Typical junction capacitance (at MHz and applied reverse voltage of V) | - | pF |
| Q_{rr} | Reverse recovery charge ($U_R = V$; $I_F = A$; $dI_F/dt = A/ms$) | - | µC |
| E_{RSM} | Non repetitive peak reverse avalanche energy ($I_R = mA$; $T_j = \text{°C}$; inductive load switched off) | - | mJ |



case: SMA / DO-214AC



SK 12 ... SK 110



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