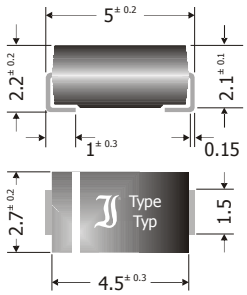
SK12 ... SK110

Surface Mount Schottky Rectifier Diodes
Schottky-Gleichrichterdioden für die Oberflächenmontage

Version 2011-07-15



Dimensions - Maße [mm]

Nominal current Nennstrom	1 A
Repetitive peak reverse voltage Periodische Spitzensperrspannung	20...100 V
Plastic case Kunststoffgehäuse	~ SMA ~ DO-214AC
Weight approx. – Gewicht ca.	0.07g
Plastic material has UL classification 94V-0 Gehäusematerial UL94V-0 klassifiziert	
Standard packaging taped and reeled Standard Lieferform gegurtet auf Rolle	

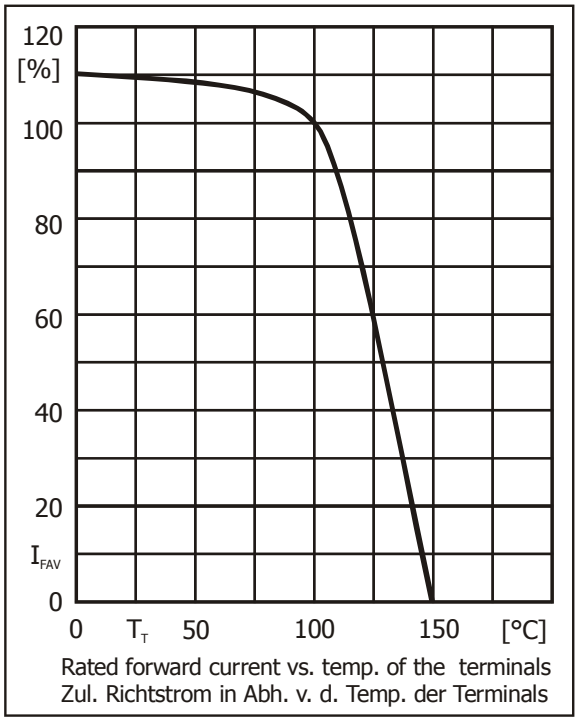
Maximum ratings **Grenzwerte**

Type Typ	Repetitive peak reverse voltage Periodische Spitzensperrspannung V_{RRM} [V]	Surge peak reverse voltage Stoßspitzensperrspannung V_{RSM} [V]	Forward voltage Durchlass-Spannung V_F [V] [1])
SK12	20	20	< 0.50
SK13	30	30	< 0.50
SK14	40	40	< 0.50
SK15	50	50	< 0.70
SK16	60	60	< 0.70
SK18	80	80	< 0.85
SK110	100	100	< 0.85

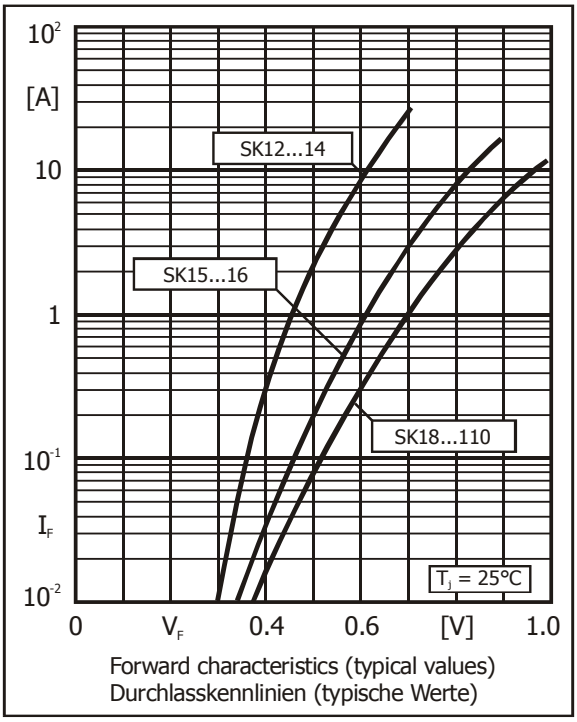
Max. average forward rectified current, R-load Dauergrenzstrom in Einwegschaltung mit R-Last	T_T = 100°C	I_{FAV}	1 A
Repetitive peak forward current Periodischer Spitzenstrom	f > 15 Hz	I_{FRM}	6 A [2])
Peak forward surge current, 50/60 Hz half sine-wave Stoßstrom für eine 50/60 Hz Sinus-Halbwelle	T_A = 25°C	I_{FSM}	30/33 A
Rating for fusing, t < 10 ms Grenzlastintegral, t < 10 ms	T_A = 25°C	i^2t	4.5 A^2s
Operating junction temperature – Sperrschichttemperatur Storage temperature – Lagerungstemperatur		T_j T_S	-50...+150°C -50...+150°C

1 I_F = 1 A, T_j = 25°C
2 Max. temperature of the terminals T_T = 100°C – Max. Temperatur der Anschlüsse T_T = 100°C

Characteristics			**Kennwerte**
Leakage current Sperrstrom	T_j = 25°C $V_R = V_{RRM}$ T_j = 100°C $V_R = V_{RRM}$	I_R I_R	< 0.5 mA < 5.0 mA
Thermal resistance junction to ambient air Wärmewiderstand Sperrschicht – umgebende Luft		R_{thA}	< 70 K/W [1])
Thermal resistance junction to terminal Wärmewiderstand Sperrschicht – Anschluss		R_{thT}	< 30 K/W



Rated forward current vs. temp. of the terminals
Zul. Richtstrom in Abh. v. d. Temp. der Terminals



Forward characteristics (typical values)
Durchlasskennlinien (typische Werte)

1 Mounted on P.C. board with 25 mm² copper pads at each terminal
Montage auf Leiterplatte mit 25 mm² Kupferbelag (Lötpad) an jedem Anschluss