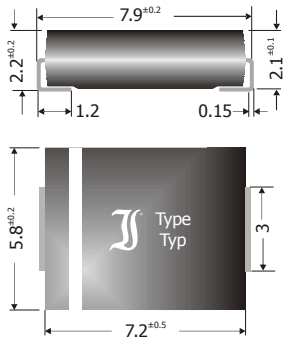
SK82 ... SK810

Surface Mount Schottky Rectifier Diodes
Schottky-Gleichrichterdioden für die Oberflächenmontage

Version 2012-04-04



Dimensions - Maße [mm]

Nominal current – Nennstrom	8 A
Repetitive peak reverse voltage Periodische Spitzensperrspannung	20...100 V
Plastic case Kunststoffgehäuse	~ SMC ~ DO-214AB
Weight approx. – Gewicht ca.	0.21g
Plastic material has UL classification 94V-0 Gehäusematerial UL94V-0 klassifiziert	
Standard packaging taped and reeled Standard Lieferform gegurtet auf Rolle	

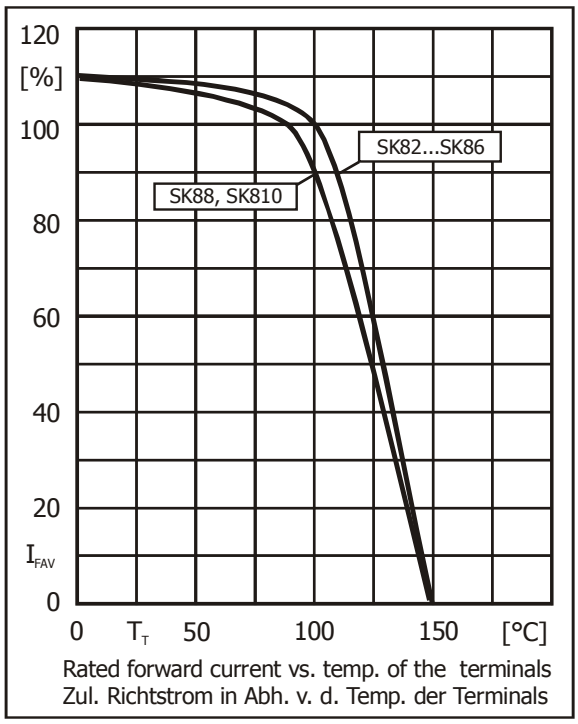
Maximum ratings **Grenzwerte**

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])	
			I_F = 5 A	I_F = 8 A
SK82	20	20	< 0.50	< 0.55
SK83	30	30	< 0.50	< 0.55
SK84	40	40	< 0.50	< 0.55
SK85	50	50	< 0.63	< 0.70
SK86	60	60	< 0.63	< 0.70
SK88	80	80	< 0.77	< 0.85
SK810	100	100	< 0.77	< 0.85

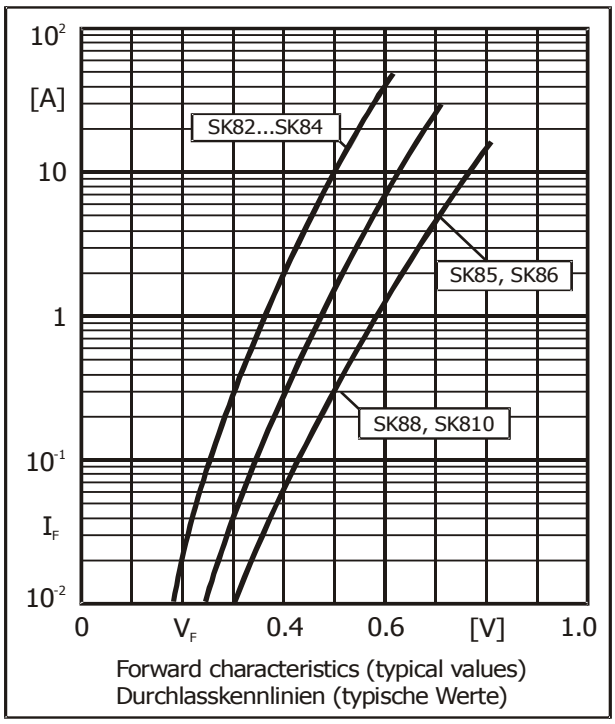
Max. average forward rectified current, R-load Dauergrenzstrom in Einwegschaltung mit R-Last	T_T = 100°C T_T = 85°C	I_{FAV}	8 A [2]) 8 A [3])
Repetitive peak forward current Periodischer Spitzenstrom	f > 15 Hz	I_{FRM}	30 A [2]) 27 A [3])
Peak forward surge current, 50/60 Hz half sine-wave Stoßstrom für eine 50/60 Hz Sinus-Halbwelle	T_A = 25°C	I_{FSM}	140/150 A [2]) 125/135 A [3])
Rating for fusing, t < 10 ms Grenzlastintegral, t < 10 ms	T_A = 25°C	i^2t	100 A^2s [2]) 78 A^2s [3])
Operating junction temperature – Sperrschichttemperatur Storage temperature – Lagerungstemperatur	T_j T_S		-50...+150°C -50...+150°C

1 T_j = 25°C
2 SK82 ... SK86
3 SK88 ... SK810

Characteristics				**Kennwerte**
Leakage current Sperrstrom	T_j = 25°C T_j = 100°C	$V_R = V_{RRM}$ $V_R = V_{RRM}$	I_R I_R	< 200 µA < 20 mA
Thermal resistance junction to ambient air Wärmewiderstand Sperrschicht – umgebende Luft			R_{thA}	< 40 K/W [1])
Thermal resistance junction to terminal Wärmewiderstand Sperrschicht – Anschluss			R_{thT}	< 10 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 50 mm² copper pads at each terminal
Montage auf Leiterplatte mit 50 mm² Kupferbelag (Lötpad) an jedem Anschluss