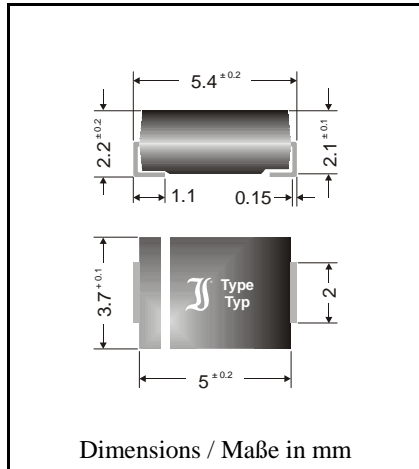


Surface Mount
Schottky-Rectifiers
Schottky-Gleichrichter
für die Oberflächenmontage

Version 2004-07-29



Nominal current – Nennstrom	5 A
Repetitive peak reverse voltage	20...100 V
Periodische Spitzensperrspannung	
Plastic case	~ SMB
Kunststoffgehäuse	~ DO-214AA
Weight approx. – Gewicht ca.	0.1 g
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 Spitzensperrspg. V_{RRM} [V]	Surge peak reverse voltage Stoßspitzensperrspannung V_{RSM} [V]	Forward voltage Durchlaßspannung V_F [V] ¹⁾
SK52	20	20	< 0.55
SK53	30	30	< 0.55
SK54	40	40	< 0.55
SK55	50	50	< 0.68
SK56	60	60	< 0.68
SK58	80	80	< 0.83
SK510	100	100	< 0.83

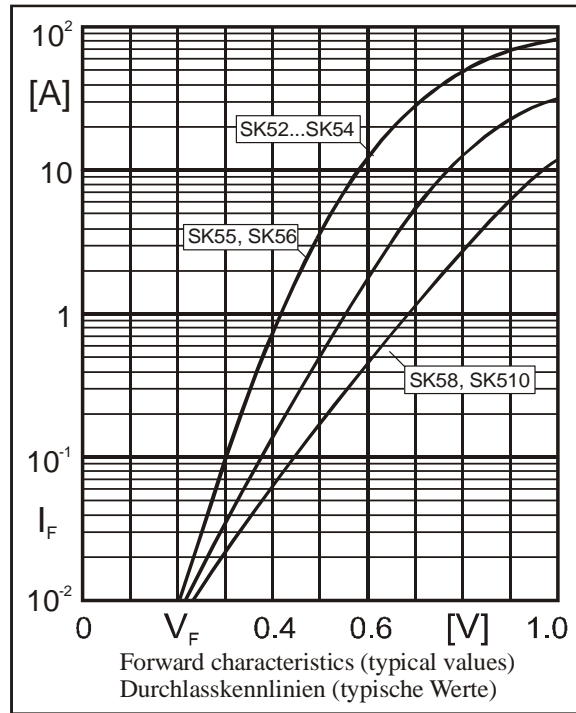
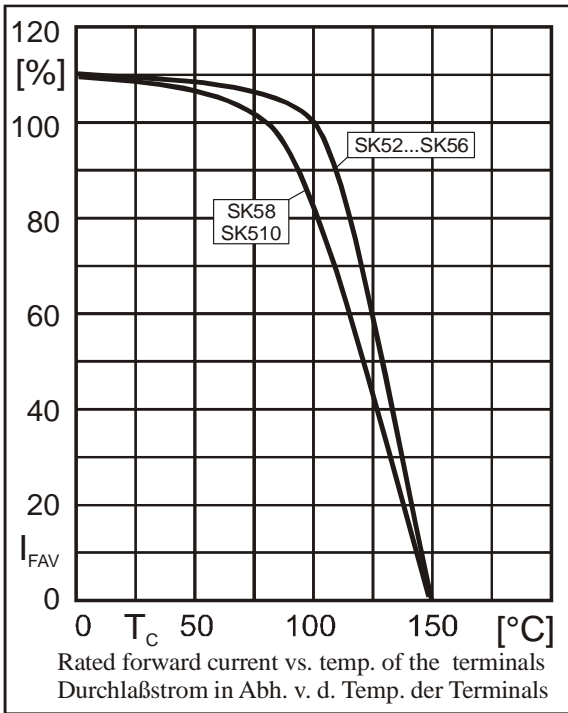
Max. average forward rectified current, R-load Dauergrenzstrom in Einwegschaltung mit R-Last	SK52...SK56 SK58, SK510	I_{FAV} I_{FAV}	5 A ²⁾ 5 A ³⁾
Repetitive peak forward current Periodischer Spitzenstrom	$f > 15$ Hz	I_{FRM}	20 A ²⁾
Peak forward surge current, 50 / 60 Hz half sine-wave Stoßstrom für eine 50 / 60 Hz Sinus-Halbwellen	$T_A = 25^\circ\text{C}$	I_{FSM}	100 / 110 A
Rating for fusing, $t < 10$ ms Grenzlastintegral, $t < 10$ ms	$T_A = 25^\circ\text{C}$	i^2t	50 A ² s
Operating junction temperature – Sperrschichttemperatur		T_j	- 50...+150°C
Storage temperature – Lagerungstemperatur		T_s	- 50...+150°C

¹⁾ $I_F = 5$ A, $T_A = 25^\circ\text{C}$
²⁾ Max. temperature of the terminals $T_T = 100^\circ\text{C}$ – Max. Temperatur der Anschlüsse $T_T = 100^\circ\text{C}$
³⁾ Max. temperature of the terminals $T_T = 85^\circ\text{C}$ – Max. Temperatur der Anschlüsse $T_T = 85^\circ\text{C}$

Characteristics

Kennwerte

Leakage current – Sperrstrom	$T_j = 25\text{/}^{\circ}\text{C}$	$V_R = V_{RRM}$	I_R	< 130 : A
	$T_j = 100\text{/}^{\circ}\text{C}$	$V_R = V_{RRM}$	I_R	< 20 mA
Thermal resistance junction to ambient air Wärmewiderstand Sperrschicht – umgebende Luft			R_{thA}	< 60 K/W ¹⁾
Thermal resistance junction to terminal Wärmewiderstand Sperrschicht – Anschluß			R_{thT}	< 15 K/W



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