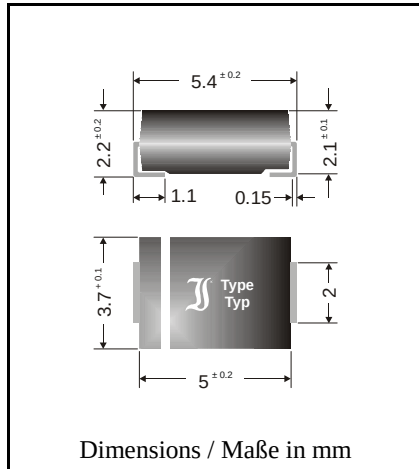


Surface Mount
Schottky-Rectifiers
Schottky-Gleichrichter
für die Oberflächenmontage

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	$T_A = 25/C$	I_{FSM}	100 / 110 A
Rating for fusing, $t < 10$ ms Grenzlastintegral, $t < 10$ ms	$T_A = 25/C$	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, $T_A = 25/C$ ²⁾ Max. temperature of the terminals $T_T = 100/C$ – Max. Temperatur der Anschlüsse $T_T = 100/C$ ³⁾ Max. temperature of the terminals $T_T = 85/C$ – Max. Temperatur der Anschlüsse $T_T = 85/C$

Characteristics**Kennwerte**

Leakage current – Sperrstrom

$T_j = 25/^\circ\text{C}$

$V_R = V_{RRM}$

$I_R < 130 \mu\text{A}$

$T_j = 100/^\circ\text{C}$

$V_R = V_{RRM}$

$I_R < 20 \text{ mA}$

Thermal resistance junction to ambient air

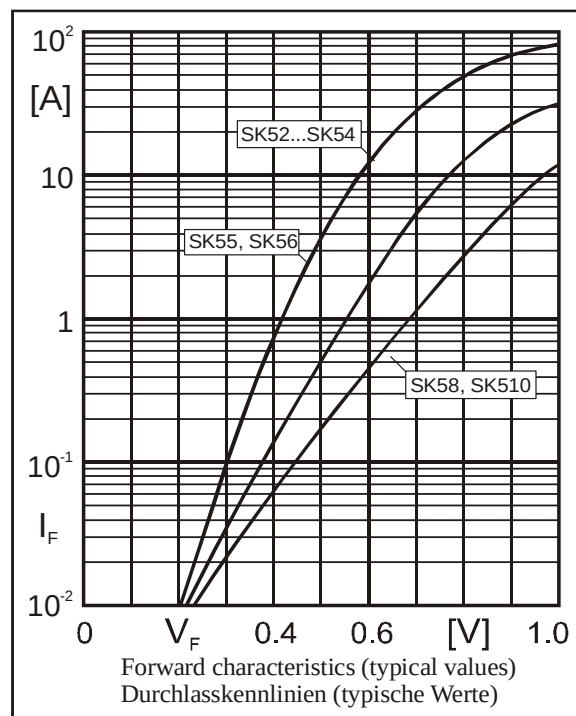
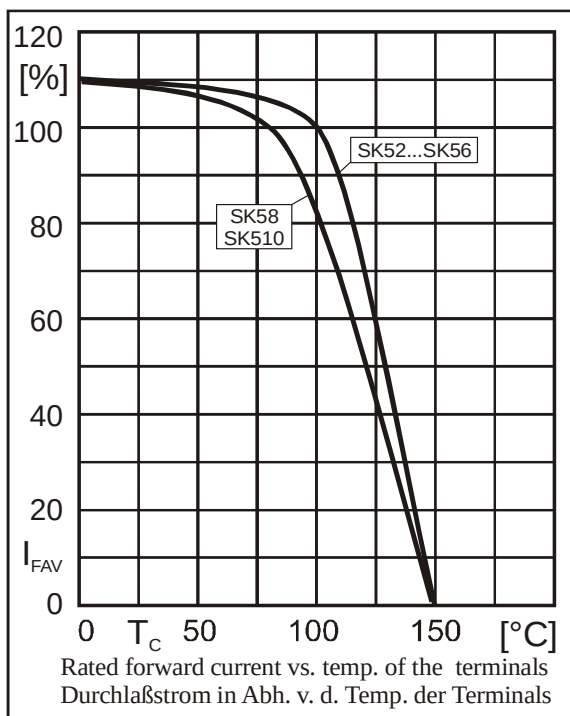
$R_{thA} < 60 \text{ K/W}^1)$

Wärmewiderstand Sperrschicht – umgebende Luft

Thermal resistance junction to terminal

$R_{thT} < 15 \text{ K/W}$

Wärmewiderstand Sperrschicht – Anschluß



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