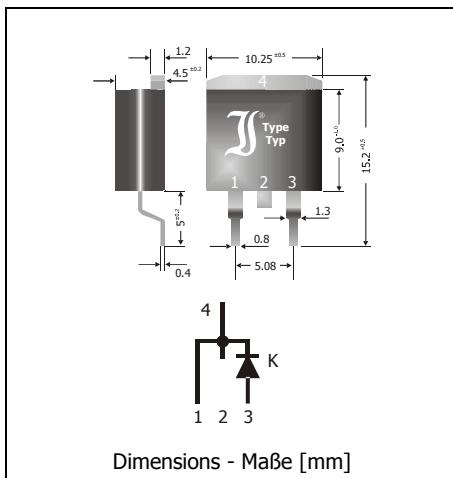


**SK1020D2 ... SK10100D2**
**Surface Mount Schottky Rectifiers – Single Diode**  
**Schottky-Gleichrichter für die Oberflächenmontage – Einzeldiode**

Version 2010-09-22



Nominal Current

10 A

Repetitive peak reverse voltage  
Periodische Spitzensperrspannung

20...100 V

Plastic case  
KunststoffgehäuseTO-263AB  
D<sup>2</sup>PAKWeight approx.  
Gewicht ca.

1.6 g

Plastic material has UL classification 94V-0  
Gehäusematerial UL94V-0 klassifiziertStandard packaging in tubes  
Standard Lieferform in Stangen**Maximum ratings and Characteristics****Grenz- und Kennwerte**

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] <sup>1)</sup>	$I_F = 5$ A	$I_F = 10$ A
SK1020D2	20	20	< 0.51	< 0.55	
SK1030D2	30	30	< 0.51	< 0.55	
SK1040D2	40	40	< 0.51	< 0.55	
SK1045D2	45	45	< 0.51	< 0.55	
SK1050D2	50	50	< 0.57	< 0.65	
SK1060D2	60	60	< 0.57	< 0.65	
SK1080D2	80	80	< 0.71	< 0.83	
SK10100D2	100	100	< 0.71	< 0.83	
Max. average forward rectified current, R-load Dauergrenzstrom in Einwegschaltung mit R-Last		$T_C = 100^\circ\text{C}$	$I_{FAV}$		10 A
Repetitive peak forward current Periodischer Spitzenstrom		$f > 15$ Hz	$I_{FRM}$		30 A <sup>2)</sup>
Peak forward surge current, 50/60 Hz half sine-wave Stoßstrom für eine 50/60 Hz Sinus-Halbwelle	SK1020D2... SK1060D2 SK1080D2... SK10100D2	$T_A = 25^\circ\text{C}$	$I_{FSM}$		135/150 A 115/125 A
Rating for fusing – Grenzlastintegral, $t < 10$ ms		$T_A = 25^\circ\text{C}$	$i^2t$		80 A <sup>2</sup> s
Junction temperature – Sperrschiichttemperatur Storage temperature – Lagerungstemperatur		$T_j$ $T_s$			-50...+150°C -50...+175°C

1  $T_j = 25^\circ\text{C}$ 2 Max. temperature of the case  $T_c = 100^\circ\text{C}$  – Max. Temperatur des Gehäuses  $T_c = 100^\circ\text{C}$

**Characteristics**
**Kennwerte**

Leakage current Sperrstrom	SK1020D2... SK1045D2	$T_j = 25^\circ\text{C}$ $T_j = 100^\circ\text{C}$	$V_R = V_{RRM}$	$I_R$	< 300 $\mu\text{A}$ < 45 mA
Leakage current Sperrstrom	SK1050D2... SK10100D2	$T_j = 25^\circ\text{C}$ $T_j = 100^\circ\text{C}$	$V_R = V_{RRM}$	$I_R$	< 200 $\mu\text{A}$ < 25 mA
Thermal resistance junction to case Wärmewiderstand Sperrsicht - Gehäuse			$R_{thC}$	< 1.5 K/W	

