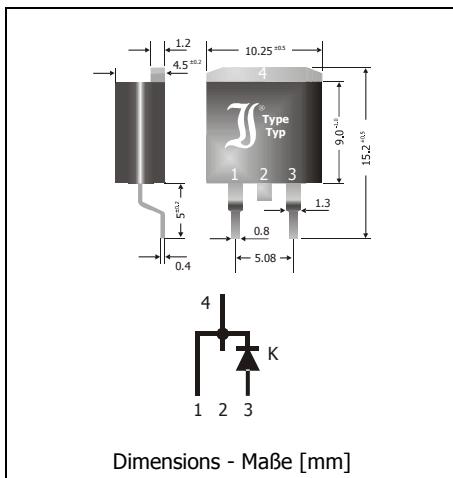


SK1020D2 ... SK10100D2
Surface Mount Schottky Rectifiers – Single Diode
Schottky-Gleichrichter für die Oberflächenmontage – Einzeldiode

Version 2012-09-19

Nominal Current
Nennstrom

10 A

Repetitive peak reverse voltage
Periodische Spitzensperrspannung

20...100 V

Plastic case
KunststoffgehäuseTO-263AB
D²PAKWeight 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] ¹⁾	$I_F = 5$ 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	< 0.63	< 0.70	
SK1060D2	60	60	< 0.63	< 0.70	
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 ²⁾
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 ² s
Junction temperature – Sperrschiesschichttemperatur 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	$< 300 \mu\text{A}$ $< 45 \text{ mA}$
Leakage current Sperrstrom	SK1050D2... SK10100D2	$T_j = 25^\circ\text{C}$ $T_j = 100^\circ\text{C}$	$V_R = V_{RRM}$	I_R	$< 200 \mu\text{A}$ $< 25 \text{ mA}$
Thermal resistance junction to case Wärmewiderstand Sperrsicht - Gehäuse				R_{thC}	$< 1.5 \text{ K/W}$

