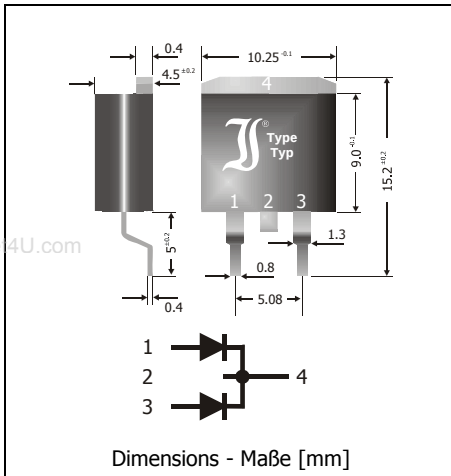


SK2020CD2 ... SK20100CD2

Surface Mount Schottky Rectifiers– Common Cathode Schottky-Gleichrichter für die Oberflächenmontage – Gemeinsame Kathode

Version 2006-03-30



Nominal Current

20 A

Nennstrom

Repetitive peak reverse voltage

20...100 V

Periodische Spitzensperrspannung

Plastic case

TO-263

Kunststoffgehäuse

D2PAK

Weight approx.

1.6 g

Gewicht ca.

Plastic material has UL classification 94V-0

Gehäusematerial UL94V-0 klassifiziert

Standard packaging taped and reeled

Standard Lieferform gegurtet auf Rolle



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⁾ ²⁾	
			$I_F = 5\text{ A}$	$I_F = 10\text{ A}$
SK2020CD2	20	20	< 0.51	< 0.55
SK2030CD2	30	30	< 0.51	< 0.55
SK2040CD2	40	40	< 0.51	< 0.55
SK2045CD2	45	45	< 0.51	< 0.55
SK2050CD2	50	50	< 0.57	< 0.65
SK2060CD2	60	60	< 0.57	< 0.65
SK2080CD2	80	80	< 0.71	< 0.83
SK20100CD2	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} I_{FAV}	$10\text{ A}^{2)}$ $20\text{ A}^{3)}$
Repetitive peak forward current Periodischer Spitzenstrom		$f > 15\text{ Hz}$	I_{FRM}	$30\text{ A}^{2)}$
Peak forward surge current 50/60 Hz half sine-wave Stoßstrom für eine 50/60 Hz Sinus-Halbwellen	SK2020CD2... SK2060CD2	$T_A = 25^\circ\text{C}$	I_{FSM}	$130/150\text{ A}^{2)}$
	SK2080CD2... SK20100CD2	$T_A = 25^\circ\text{C}$	I_{FSM}	$110/125\text{ A}^{2)}$
Rating for fusing, $t < 10\text{ ms}$ Grenzlastintegral, $t < 10\text{ ms}$		$T_A = 25^\circ\text{C}$	i^2t	$80\text{ A}^2\text{s}^{2)}$
Junction temperature – Sperrschichttemperatur Storage temperature – Lagerungstemperatur			T_j T_s	$-50...+150^\circ\text{C}$ $-50...+175^\circ\text{C}$

1 $T_i = 25^\circ\text{C}$

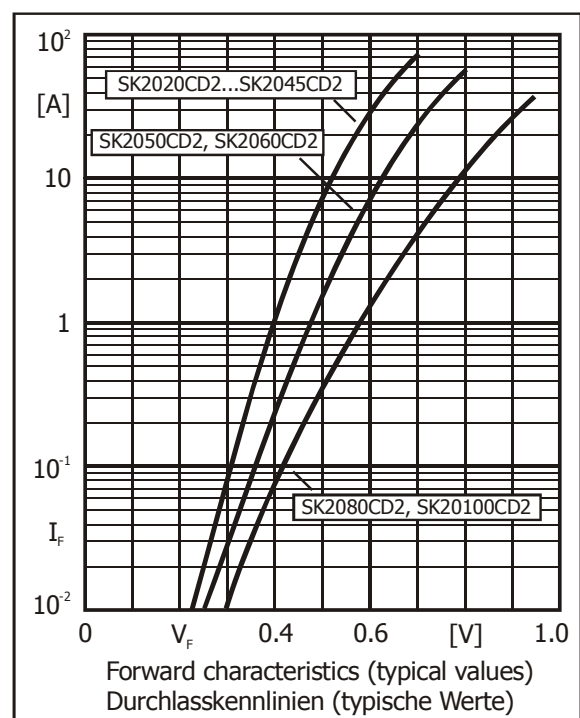
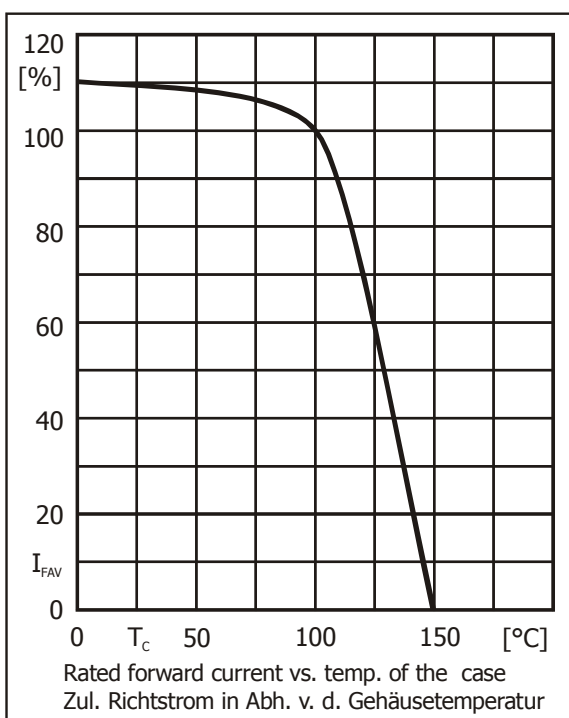
- 1 $T_j = 25^\circ\text{C}$
- 2 Per diode – Pro Diode

3 Per device (parallel operation) – Pro Bauteil (Parallelbetrieb)

Characteristics
Kennwerte

Leakage current Sperrstrom	SK2020CD2... SK2045CD2	$T_j = 25^\circ\text{C}$ $T_j = 100^\circ\text{C}$	$V_R = V_{RRM}$	I_R	< 300 μA < 45 mA
Leakage current Sperrstrom	SK2050 CD2... SK20100CD2	$T_j = 25^\circ\text{C}$ $T_j = 100^\circ\text{C}$	$V_R = V_{RRM}$	I_R	< 200 μA < 25 mA
Thermal resistance junction to case Wärmewiderstand Sperrschicht - Gehäuse				R_{thC}	< 1.5 K/W ¹⁾

www.DataSheet4U.com



1 Per device (parallel operation) – Pro Bauteil (Parallelbetrieb)