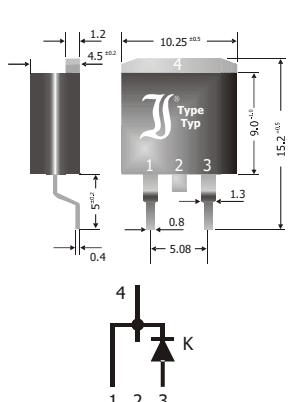


SK1020D2 ... SK10100D2
SMD Schottky Barrier Rectifier Diodes
SMD Schottky-Gleichrichterdioden
I_{FAV} = 10 A**V_{F1}** < 0.50 V**T_{jmax}** = 150°C**V_{RRM}** = 20...100 V**I_{FSM1}** = 135/150 A**V_{F1@5A}** < 0.47 V

Version 2019-06-13

**TO-263AB
(D²PAK)**

Dimensions - Maße [mm]

Typical Applications
Output Rectification in DC/DC
Converters and Power Supplies
Polarity Protection, Free-wheeling diodes
Commercial grade ¹⁾
Typische Anwendungen
Ausgangsgleichrichtung in DC/DC-
Wandlern und Netzteilen
Verpolschutz, Freilaufdioden
Standardausführung ¹⁾
Features
Low forward voltage drop
High power dissipation
Compliant to RoHS, REACH,
Conflict Minerals ¹⁾
**Mechanical Data ¹⁾**
Packed in tubes/cardboards
On request: on 13" reel
50/1000
800

Weight approx.

1.6 g

Case material

UL 94V-0

Solder & assembly conditions

245°C/10s

MSL = 1

Besonderheiten
Niedrige Fluss-Spannung
Hohe Leistungsfähigkeit
Konform zu RoHS, REACH,
Konfliktmineralien ¹⁾
Mechanische Daten ¹⁾
Verpackt in Stangen/Kartons
Auf Anfrage: auf 13" Rolle

Gewicht ca.

Gehäusematerial

Löt- und Einbaubedingungen

Maximum ratings ²⁾**Grenzwerte ²⁾**

Type Typ	Repetitive peak reverse voltage Periodische Spitzensperrspannung V _{RRM} [V]	Surge peak reverse voltage Stoßspitzensperrspannung V _{RSM} [V]
SK1020D2*	20	20
SK1030D2*	30	30
SK1040D2*	40	40
SK1045D2*	45	45
SK1045D2-3G	45	45
SK1050D2	50	50
SK1060D2	60	60
SK1080D2	80	80
SK10100D2	100	100

Max. average forward current – Dauergrenzstrom in Einwegschaltung	T _c = 100°C ³⁾	I _{FAV}	10 A
Repetitive peak forward current – Periodischer Spitzenstrom f > 15 Hz	T _c = 100°C ³⁾	I _{FRM}	30 A
Peak forward surge current (Half sine-wave) Stoßstrom in Fluss-Richtung (Sinus-Halbwelle)	SK1020D2 ... SK1060D2 SK1045D2-3G	50 Hz (10 ms) 60 Hz (8.3 ms)	I _{FSM} 135 A 150 A
	SK1080D2 ... SK10100D2	50 Hz (10 ms) 60 Hz (8.3 ms)	I _{FSM} 115 A 125 A
Rating for fusing – Grenzlastintegral	t < 10 ms	i ² t	80 A ² s
Junction temperature – Sperrschiesschichttemperatur Storage temperature – Lagerungstemperatur		T _j T _s	-50...+150°C -50...+175°C

1 Please note the [detailed information on our website](#) or at the beginning of the data book
Bitte beachten Sie die [detaillierten Hinweise auf unserer Internetseite](#) bzw. am Anfang des Datenbuches

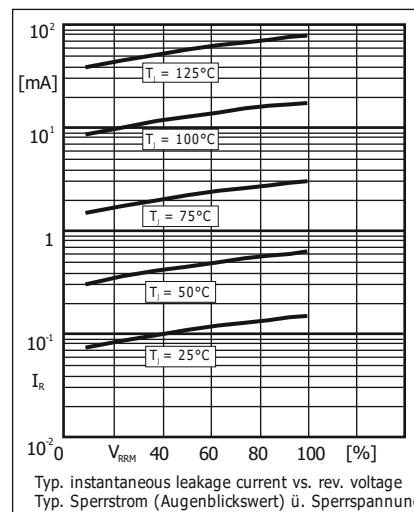
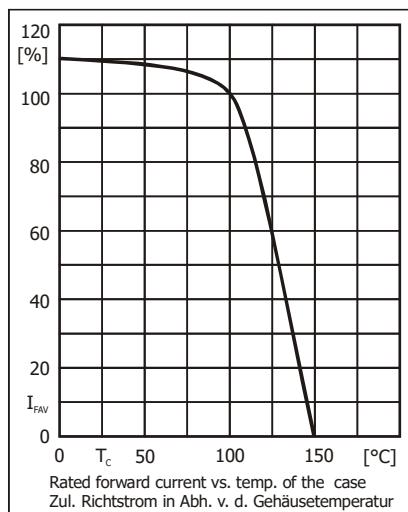
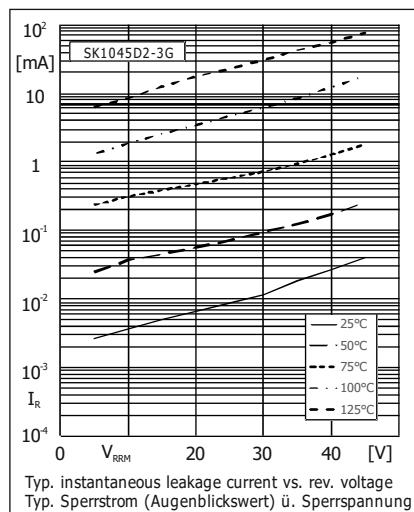
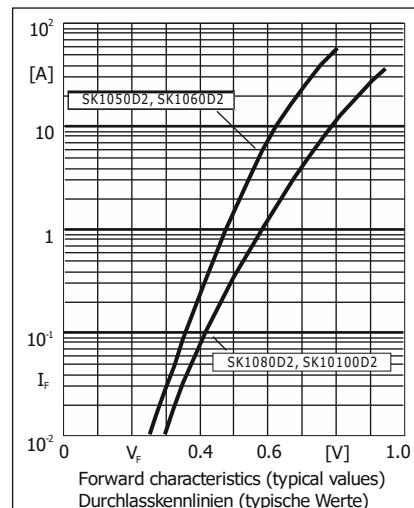
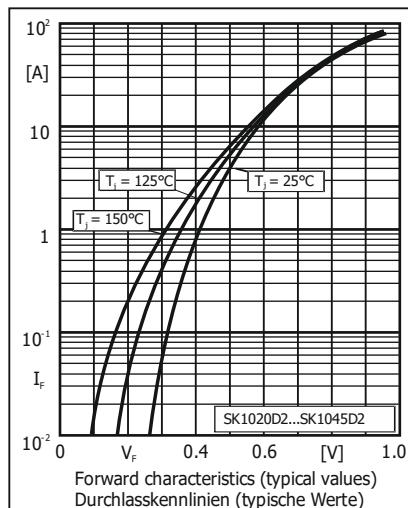
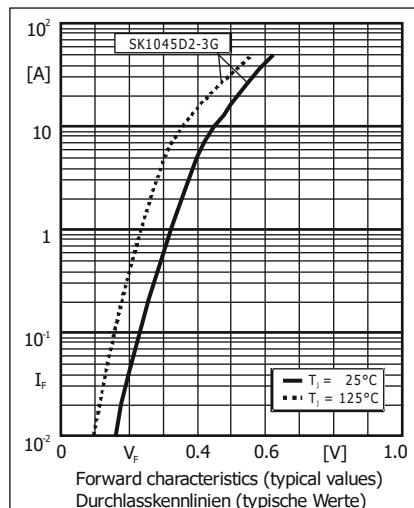
2 T_A = 25°C unless otherwise specified – T_A = 25°C wenn nicht anders angegeben

3 Measured at heat flange – Gemessen an der Kühlfläche

Characteristics
Kennwerte

Type Typ	Forward voltage Durchlass-Spannung	Forward voltage Durchlass-Spannung	Junction capacitance Sperrsichtkapazität
	V_F [V] @ I_F [A] @ T_J	V_F [V] @ I_F [A] @ T_J	C_J [pF] @ V_R [V]
SK1020D2 ... SK1045D2	< 0.51	< 0.55	typ. 500
SK1045D2-3G	< 0.47	5 25°C	typ. 510
SK1050D2, SK1060D2	< 0.63	< 0.70	typ. 500
SK1080D2, SK10100D2	< 0.71	< 0.83	typ. 300

Leakage current Sperrstrom	SK1020D2 ... SK1045D2 SK1045D2-3G SK1050D2 ... SK10100D2	$T_J = 25^\circ\text{C}$ $T_J = 100^\circ\text{C}$ $V_R = V_{RRM}$	I_R	$< 300 \mu\text{A}$ $< 45 \text{ mA}$
Thermal resistance junction to case Wärmewiderstand Sperrsicht – Gehäuse			R_{thC}	$< 1.5 \text{ K/W}^1)$



Disclaimer: See data book page 2 or [website](#)

Haftungsausschluss: Siehe Datenbuch Seite 2 oder [Internet](#)

1 Measured at heat flange – Gemessen an der Kühlfläche

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