V_{RSM} V_{RRM}	I_{FRMS} (maximum values for continuous operation) 40 A			
	I_{FAV} (sin. 180; T_{case} = 100 °C) 25 A			
V				
200	**SKN 20/02**	**SKR 20/02**	**SKN 26/02**	**SKR 26/02***
400	**SKN 20/04**	**SKR 20/04**	**SKN 26/04**	**SKR 26/04***
800	**SKN 20/08**	**SKR 20/08**	**SKN 26/08**	**SKR 26/08***
1200	**SKN 20/12**	**SKR 20/12**	**SKN 26/12**	**SKR 26/12***
1400	**SKN 20/14**	**SKR 20/14**	**SKN 26/14**	**SKR 26/14***
1600	**SKN 20/16**	**SKR 20/16**	**SKN 26/16**	**SKR 26/16***
Avalanche Types				
$V_{(BR)min}$ V	I_{FAV} = 25 A (T_{case} = 73 °C)			
1300	**SKNa 20/13**			
1700	**SKNa 20/17**			

Symbol	**Conditions**	**SKN 20 SKR 20**	**SKNa 20**	**SKN 26 SKR 26**
I_{FAV}	sin. 180; T_{case} = 93 °C	–	20 A	–
	= 100 °C	25 A	18 A	25 A
	= 125 °C	20 A	11 A	20 A
I_{FSM}	T_{vj} = 25 °C; 10 ms	375 A		
	T_{vj} = T_{vjmax}; 10 ms	320 A		
i^2t	T_{vj} = 25 °C; 8,3 ... 10 ms	700 A^2s		
	T_{vj} = T_{vjmax}; 8,3 ... 10 ms	510 A^2s		
P_{RSM}	T_{vj} > 250 °C, tp = 10 µs	–	6 kW	–
Q_{rr}	T_{vj} = 160 °C; $-\frac{di_F}{dt} = 10\ \frac{A}{\mu s}$	typ. 20 µC		
I_R	T_{vj} = 25 °C; V_R = V_{RRM}	0,3 mA	–	0,3 mA
	V_R = $V_{(BR)min}$	–	10 µA	–
	T_{vj} = 180 °C; V_R = V_{RRM}	4 mA	–	4 mA
V_F	T_{vj} = 25 °C; I_F = 60 A; max.	1,55 V		
$V_{(TO)}$	T_{vj} = T_{vjmax}	0,85 V		
r_T	T_{vj} = T_{vjmax}	11 mΩ		
R_{thjc}		2 °C/W		
R_{thch}		1 °C/W		
T_{vjmin}		– 40 °C		
T_{vjmax}		180 °C	150 °C	180 °C
T_{stg}		– 55 ... + 180 °C		
M	SI units/US units	2,0 Nm/18 lb. in.		
a		5 · 9,81 m/s^2		
w	approx.	10 g		8 g
RC	P_R = 1 W	0,05 µF + 200 Ω		
R_p	P_R = 4 W	150 kΩ		
Case		E 9		E 8

Rectifier Diodes

SKN 20 SKR 20
SKNa 20
SKN 26 SKR 26

Features

- Reverse voltages up to 1600 V, Avalanche Types to 1700 V
- Hermetic metal cases with glass insulators
- Threaded studs ISO M6 (SKR 26 also 10 – 32 UNF)
- **SKN**: anode to stud **SKR**: cathode to stud

Typical Applications

- All-purpose mean power rectifier diodes
- Cooling via metal plates or heatsinks
- Non-controllable and half-controllable rectifiers
- Free-wheeling diodes

Avalanche Types

- DC supply for magnets or solenoids (brakes, valves, etc.)
- Field coil supply for DC motors
- Series connections for high voltage applications

* available with UNF thread 10 – 32 UNF 2 A; e.g. SKR 26/02 UNF

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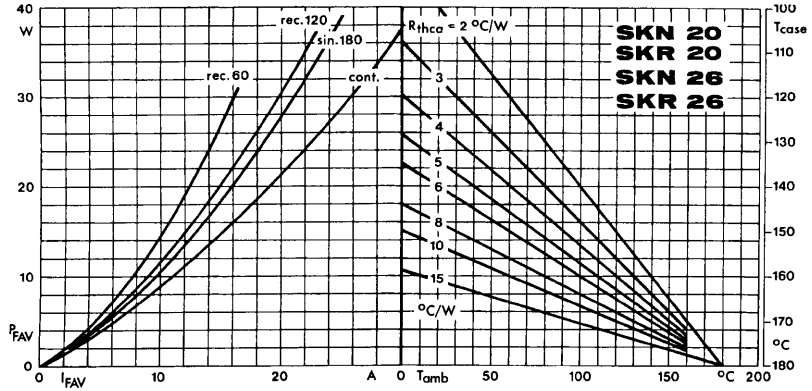

Fig. 1a Power dissipation vs. forward current and case temperature

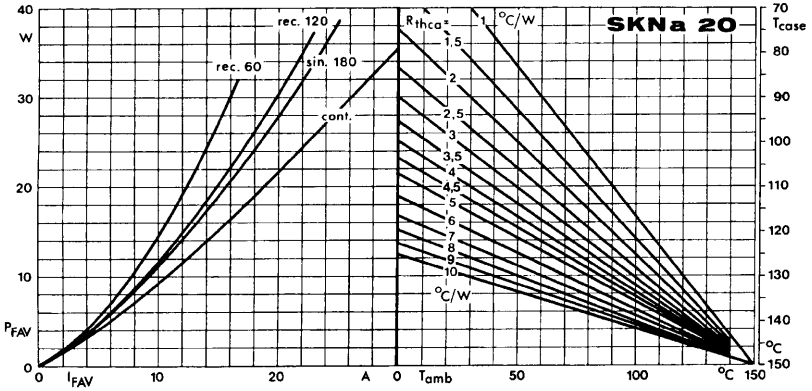

Fig. 1b Power dissipation vs. forward current and case temperature

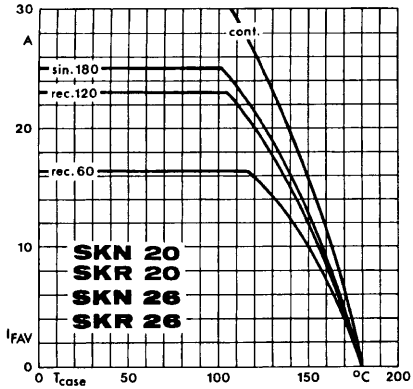

Fig. 3a Rated forward current vs. case temperature

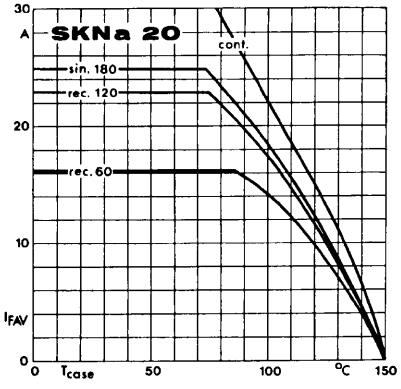

Fig. 3 b Rated forward current vs. case temperature

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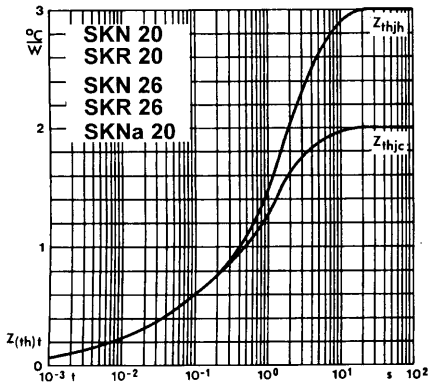

Fig. 5 Transient thermal impedance vs. time

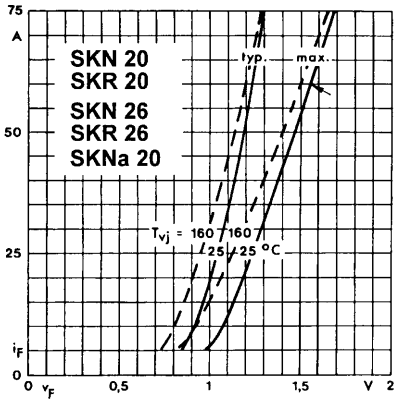

Fig. 6 Forward characteristics

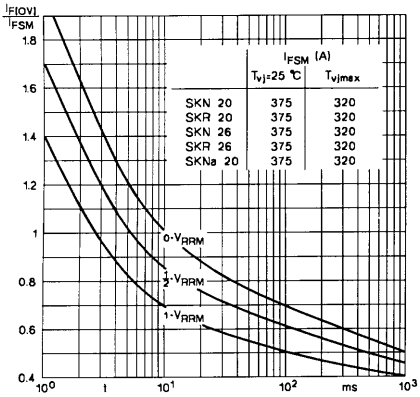

Fig. 7 Surge overload current vs. time

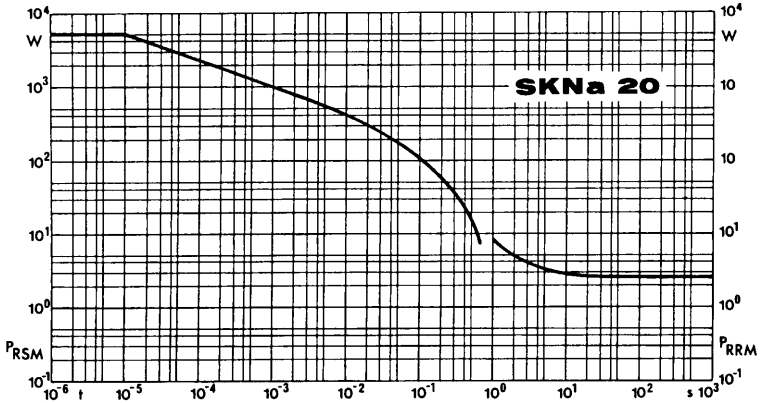

Fig. 11 Rated reverse power dissipation vs. time

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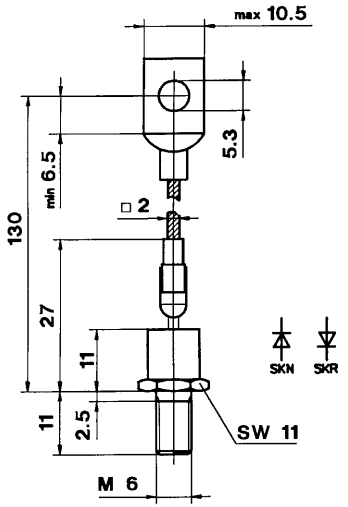
SKN 20
SKR 20
SKNa 20

Case E 9

IEC: A 16 M*
DIN 41 886: 102 A 2
BS 3934: SO-31



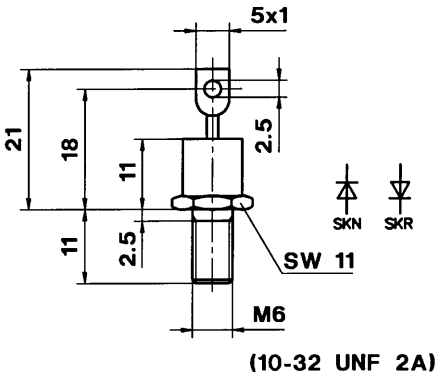
modified

Dimensions in mm

SKN 26
SKR 26

Case E 8

IEC: A 4 M*, A 3 U
DIN 41 886: 102 D 2*
BS 3934: SO-10
JEDEC: DO-203 AA
(DO-4)



* modified

Dimensions in mm

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