SKN 26

THYRISTOR BRIDGE,SCR BRIDGE



Stud Diode

Rectifier Diode

SKN 26

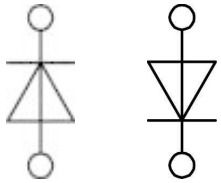
SKR 26

Features

- Reverse voltages up to 1600 V
- Hermetic metal case with glass insulator
- Threaded stud 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
- Recommended snubber network: RC: 0,05 µF, 200 Ω (P_R = 1 W), R_P = 150 kΩ (P_R = 4 W)



SKN SKR

V_{RSM} V	V_{RRM} V	I_{FRMS} = 40 A (maximum value for continuous operation) I_{FAV} = 25 A (sin. 180 °; T_c = 100 °C)		
400	400	SKN 26/04	SKR 26/04	
800	800	SKN 26/08	SKR 26/08	
1200	1200	SKN 26/12	SKR 26/12	
1400	1400	SKN 26/14	SKR 26/14	
1600	1600	SKN 26/16	SKR 26/16	

Symbol	Conditions	Values	Units
I_{FAV}	sin. 180; T_c = 100 °C	25	A
I_D	K 9; T_a = 45 °C; B2 / B6	20 / 29	A
	K 3; T_a = 45 °C; B2 / B6	35 / 50	A
I_{FSM}	T_{vj} = 25 °C; 10 ms	375	A
	T_{vj} = 180 °C; 10 ms	320	A
i^2t	T_{vj} = 25 °C; 8,3 ... 10 ms	700	A^2s
	T_{vj} = 180 °C; 8,3 ... 10 ms	510	A^2s
V_F	T_{vj} = 25 °C; I_F = 60 A	max. 1,55	V
$V_{(TO)}$	T_{vj} = 180 °C	max. 0,85	V
r_T	T_{vj} = 180 °C	max. 11	mΩ
I_{RD}	T_{vj} = 180 °C; V_{RD} = V_{RRM}	max. 4	mA
Q_{rr}	T_{vj} = 160 °C; - di_F/dt = 10 A/µs	20	µC
$R_{th(j-c)}$		2	K/W
$R_{th(c-s)}$		1	K/W
T_{vj}		- 40 ... + 180	°C
T_{stg}		- 55 ... + 180	°C
V_{isol}		-	V~
M_s	to heatsink	2,0	Nm
a		5 * 9,81	m/s²
m	approx.	7	g
Case		E 8	

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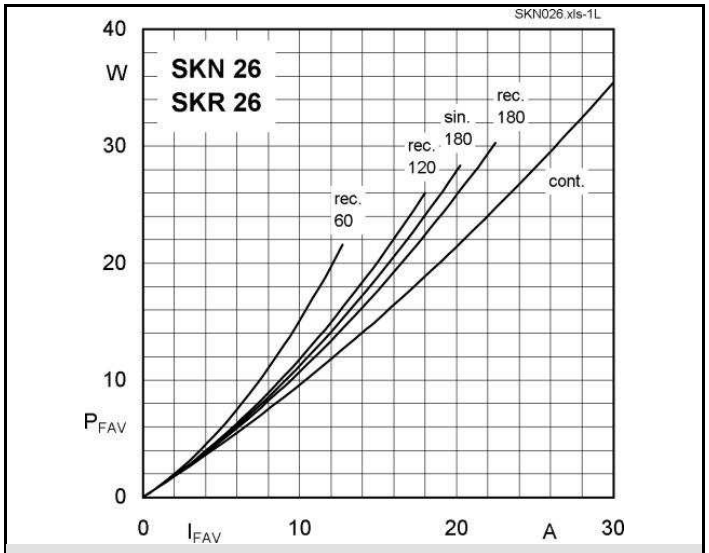


Fig. 1L Power dissipation vs. forward current

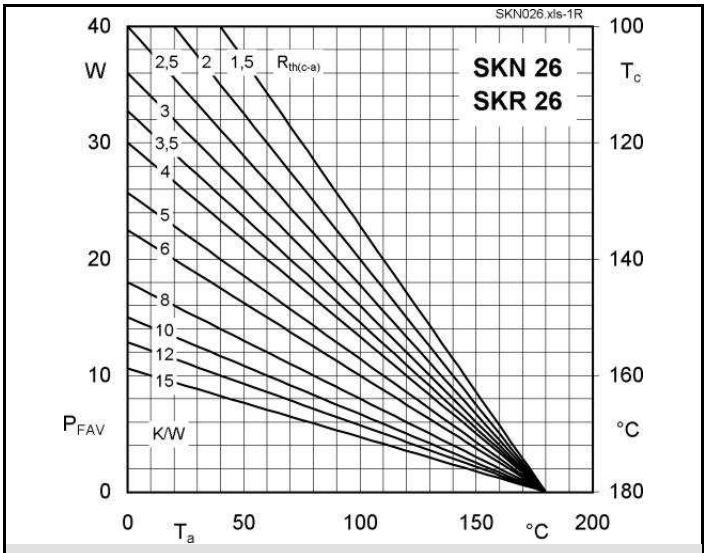


Fig. 1R Power dissipation vs. ambient temperature

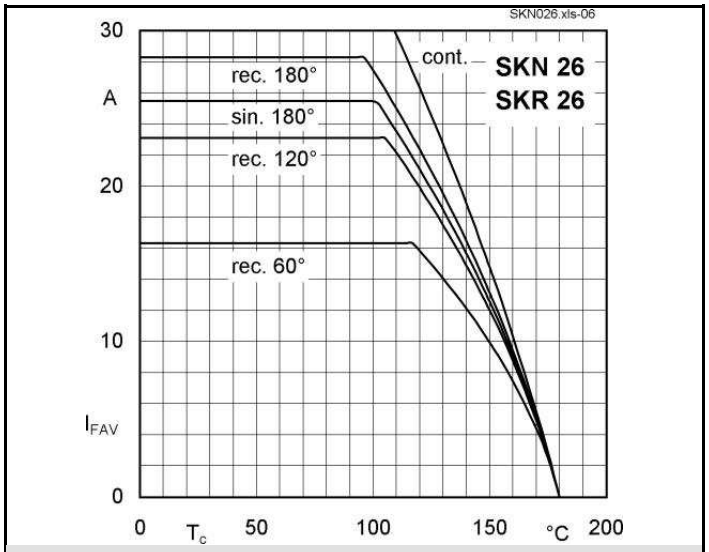


Fig. 2 Forward current vs. case temperature

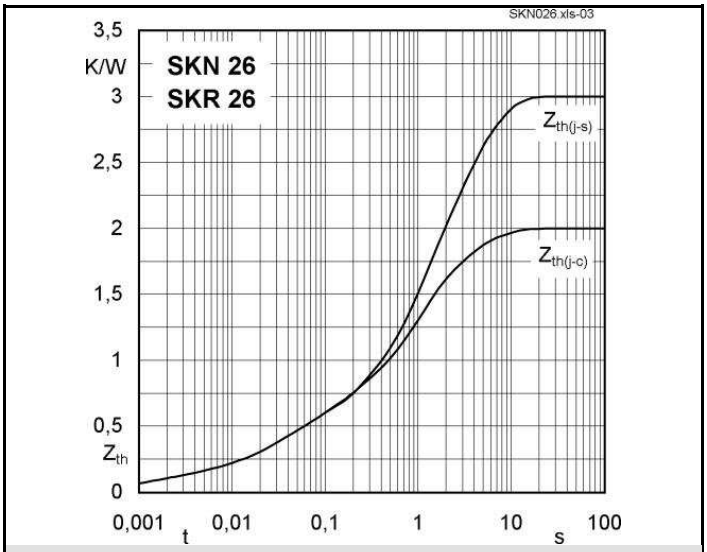


Fig. 4 Transient thermal impedance vs. time

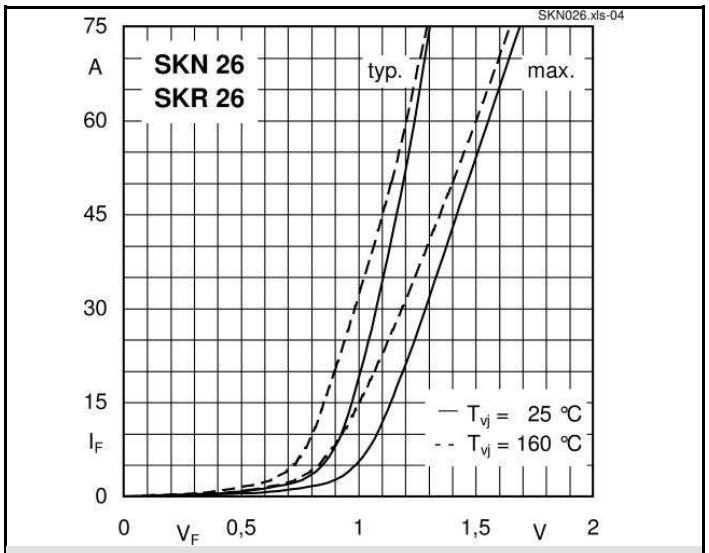


Fig. 5 Forward characteristics

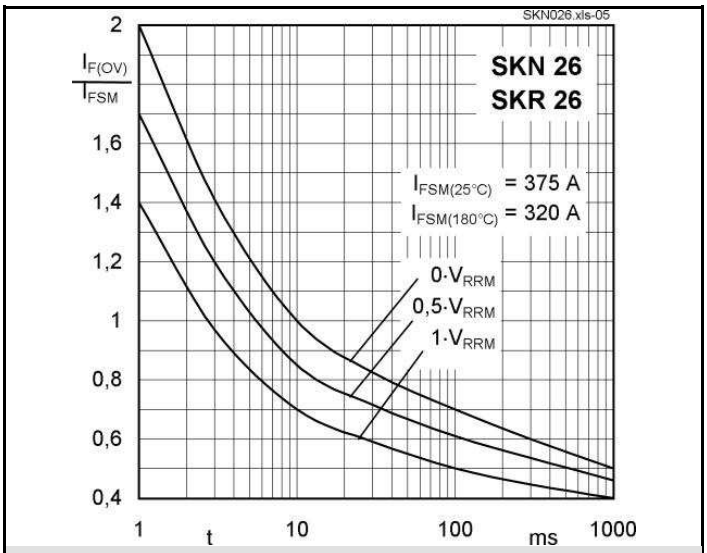
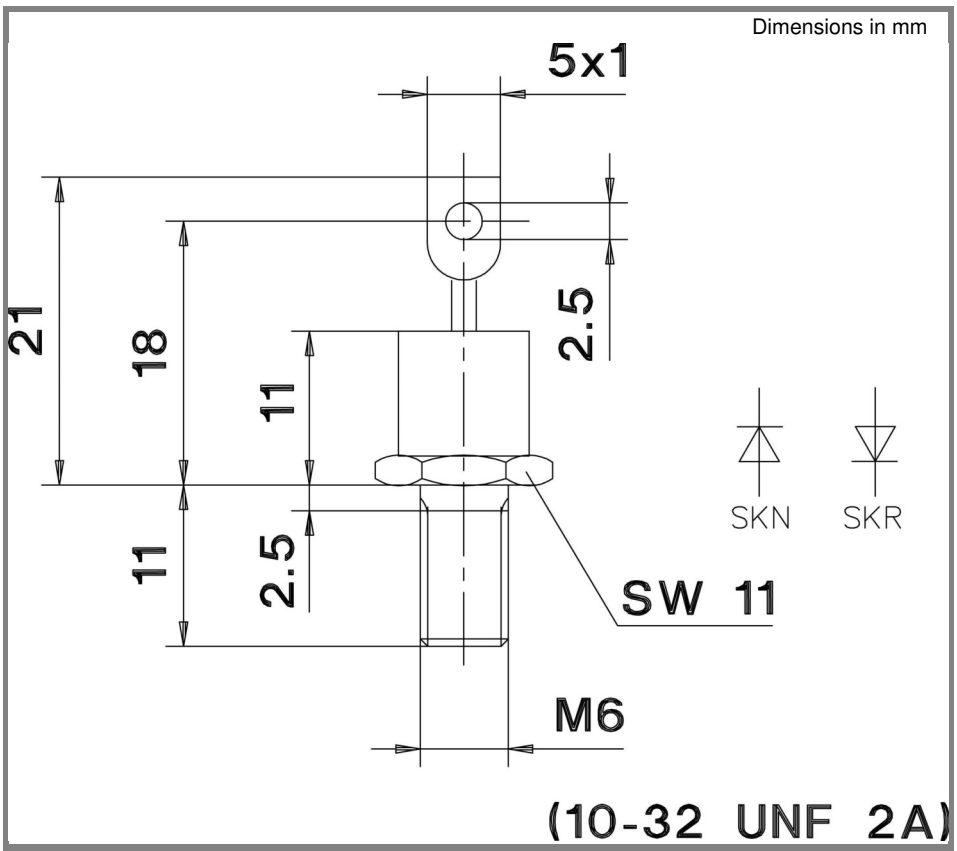


Fig. 6 Surge overload current vs. time

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Case E 8 (IEC 60191: A 4 M modified, A 3 U; JEDEC: DO-203 AA)

* The specifications of our components may not be considered as an assurance of component characteristics. Components have to be tested for the respective application. Adjustments may be necessary. The use of SEMIKRON products in life support appliances and systems is subject to prior specification and written approval by SEMIKRON. We therefore strongly recommend prior consultation of our personal.

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