Stud Diode

Rectifier Diode

SKN 26

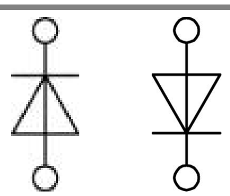
SKR 26

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
i²t	T_{vj} = 25 °C; 8,3 ... 10 ms	700	A²s
	T_{vj} = 180 °C; 8,3 ... 10 ms	510	A²s
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.	8	g
Case		E 8	

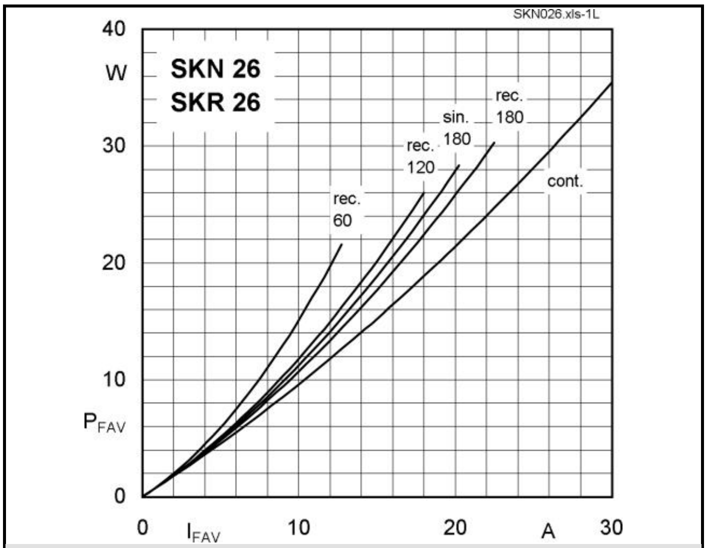


Fig. 1L Power dissipation vs. forward current

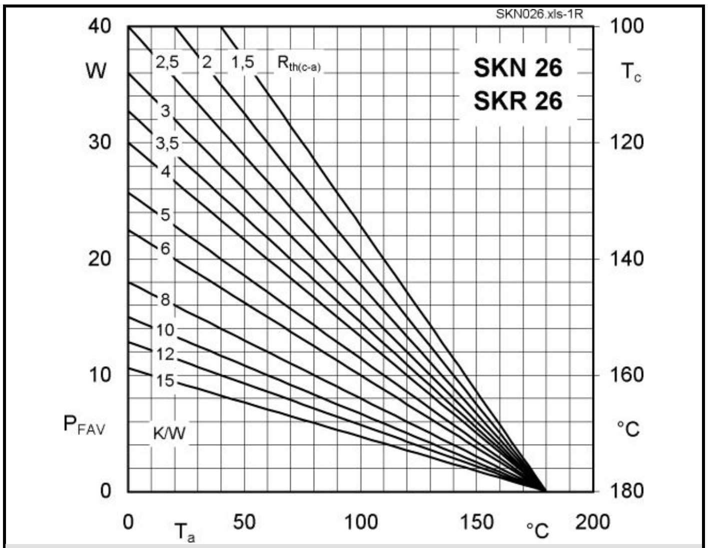


Fig. 1R Power dissipation vs. ambient temperature

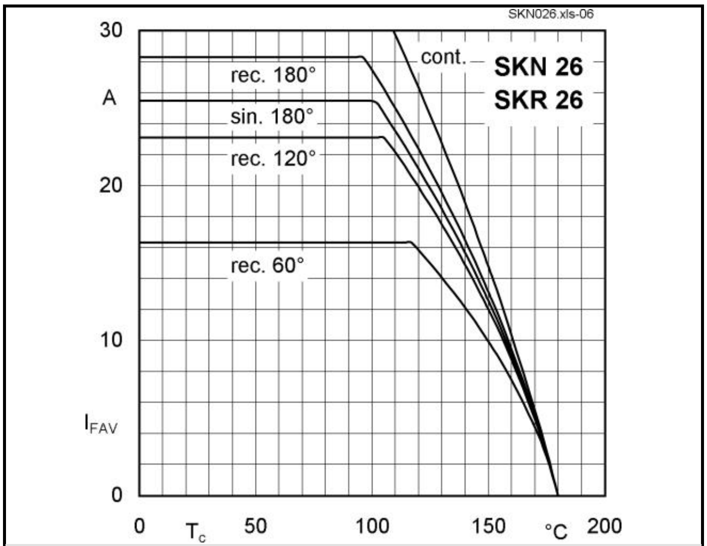


Fig. 2 Forward current vs. case temperature

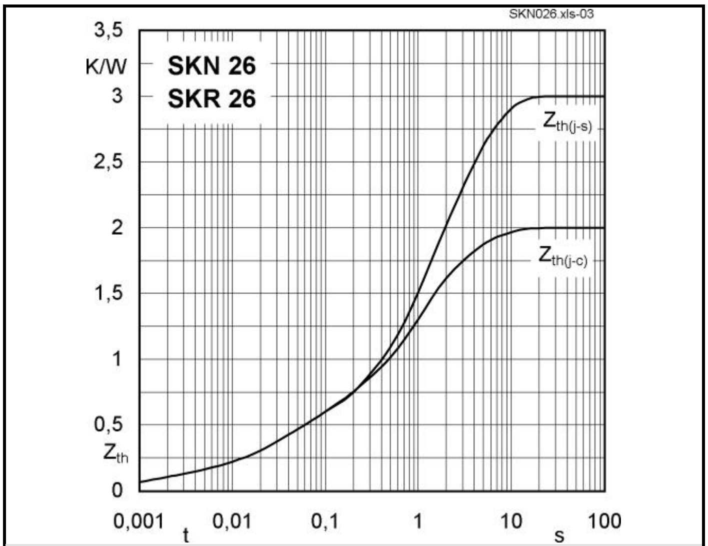


Fig. 4 Transient thermal impedance vs. time

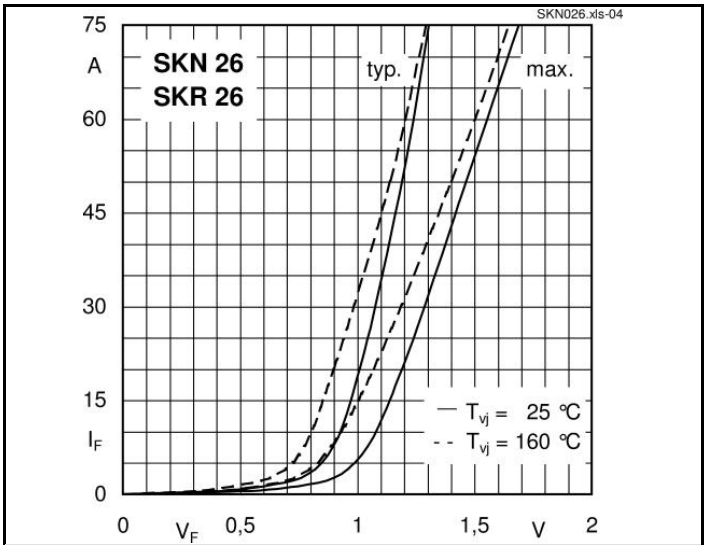


Fig. 5 Forward characteristics

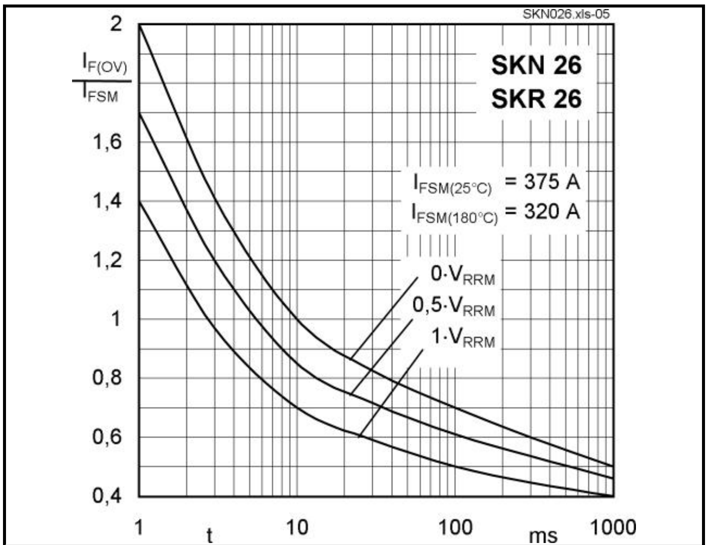
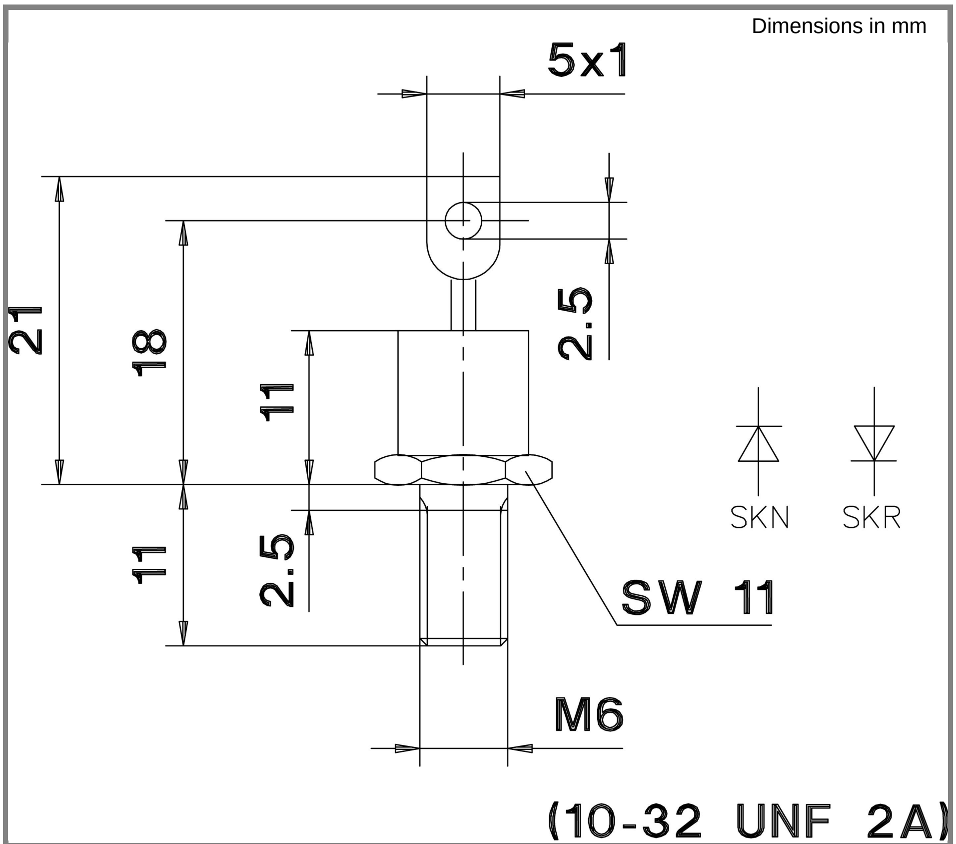


Fig. 6 Surge overload current vs. time



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

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