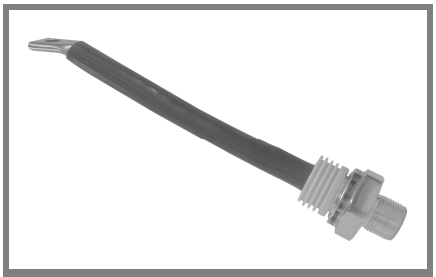
SKN 400, SKR 400



Stud Diode

V_{RSM} V	V_{RRM} V	I_{FRMS} = 700 A (maximum value for continuous operation) I_{FAV} = 400 A (sin. 180; T_c = 100 ºC)	
1800	1800	SKN 400/18	SKR 400/18
2000	2000	SKN 400/20	SKR 400/20
2400	2400	SKN 400/24	SKR 400/24
2700	2700	SKN 400/27	SKR 400/27
3000	3000	SKN 400/30	SKR 400/30
3600	3600	SKN 400/36	SKR 400/36

Rectifier Diode

SKN 400
SKR 400

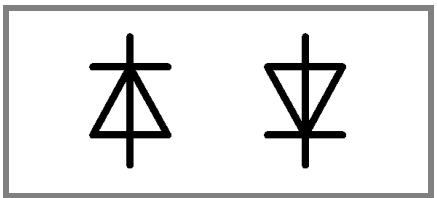
Features

- Reverse voltages up to 3600 V
- Hermetic metal cases with glass insulator
- Threaded stud M24 x 1,5 mm.
- **SKN:** anode to stud
- **SKR:** cathode to stud

Typical Applications *

- High voltage rectifier diode, especially for traction applications
- Cooling via heatsinks
- Non-controllable and half-controllable rectifiers
- Free-wheeling diodes
- Recommended snubber network:
  RC: 1,0 µF, 20 Ω (P_R = 5W),
  R_p: 25 KΩ (P_R = 20 W)

Symbol	Condition	Values	Units
I_{FAV}	sin. 180 ; T_C = 85 (100) ºC	445 (400)	A
I_D	K 0,55; T_a = 45 ºC; B2 / B6	310 / 450	A
	K 0,55F; T_a = 35 ºC; B2 / B6	700 / 1000	A
I_{FSM}	T_{vj} = 25º C ; 10 ms	9000	A
	T_{vj} = 160º C ; 10 ms	7500	A
i^2t	T_{vj} = 25º C ; 8,3...10 ms	400000	A^2s
	T_{vj} = 160º C ; 8,3...10 ms	280000	A^2s
V_F	T_{vj} = 25º C, I_F = 1200 A	max. 1,45	V
$V_{(TO)}$	T_{vj} = 160º C	max. 0,9	V
r_T	T_{vj} = 160º C	max. 0,5	mΩ
I_{RD}	T_{vj} = 160º C ; V_R = V_{RRM}	max. 60	mA
Q_{rr}	T_{vj} = 160°C, -di_F/dt = 10 A/µs	typ. 400	µC
$R_{th(j-c)}$		0,11	K/W
$R_{th(c-s)}$		0,01	K/W
T_{vj}		-40...+160	°C
T_{stg}		-55...+160	°C
V_{isol}		-	V~
M_s	to heatsink (SI units)	60	Nm
	to heatsink (US units)	531	lb.in.
a		5 * 9,81	m/s^2
m	approx.	500	g
Case		E 17	



SKN SKR

 © by SEMIKRON

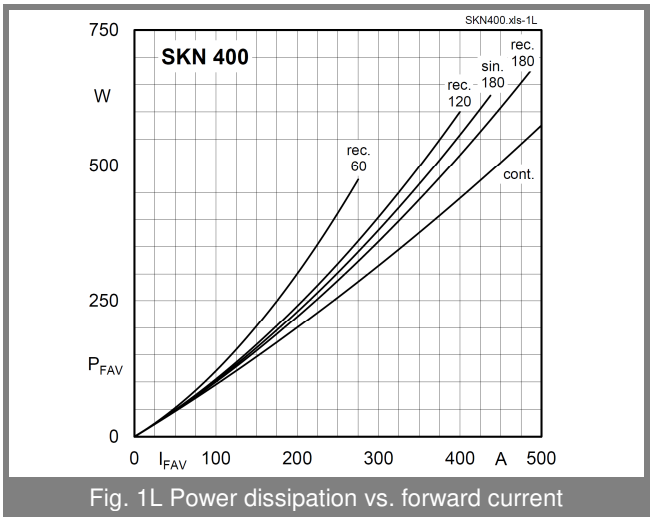


Fig. 1L Power dissipation vs. forward current

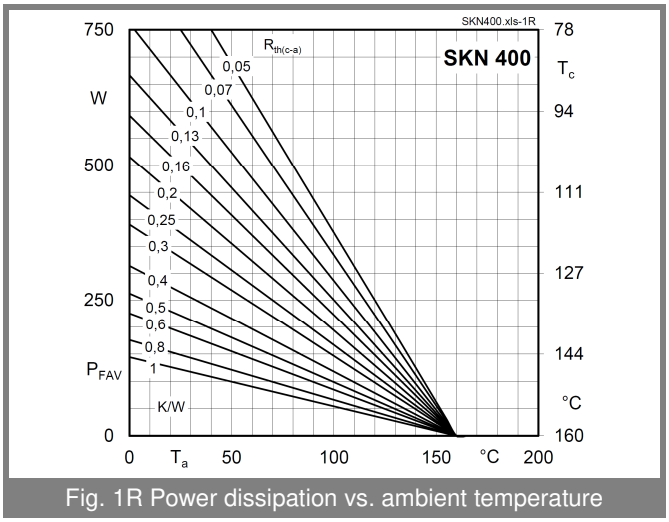


Fig. 1R Power dissipation vs. ambient temperature

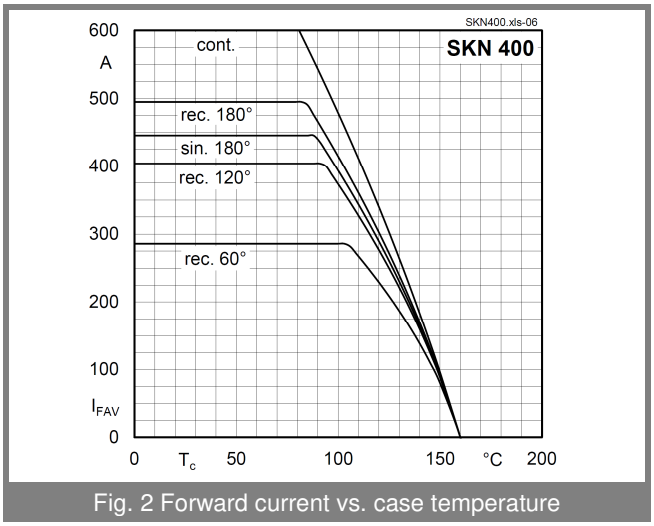


Fig. 2 Forward current vs. case temperature

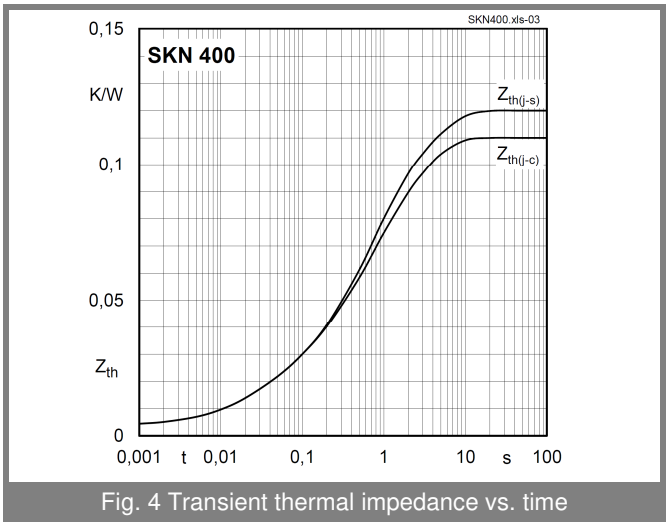


Fig. 4 Transient thermal impedance vs. time

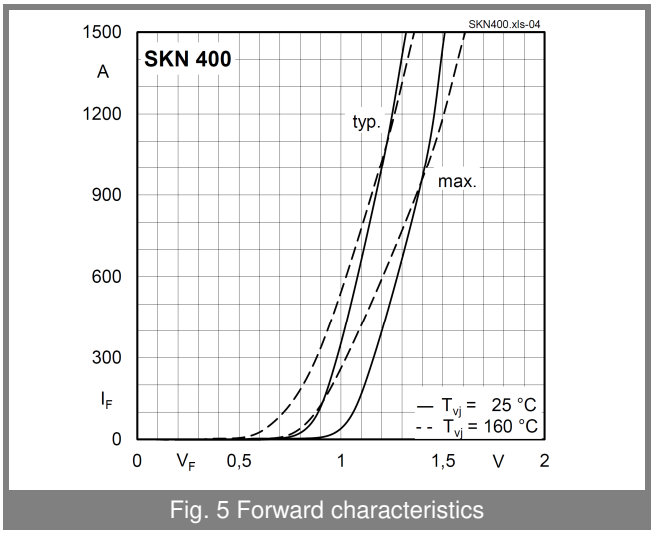


Fig. 5 Forward characteristics

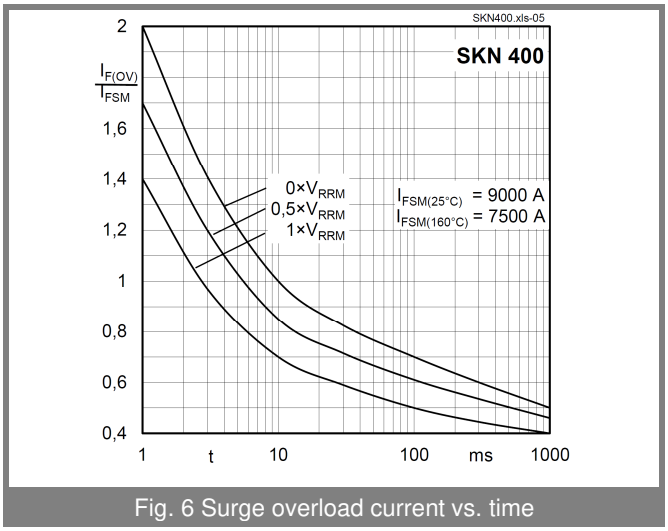
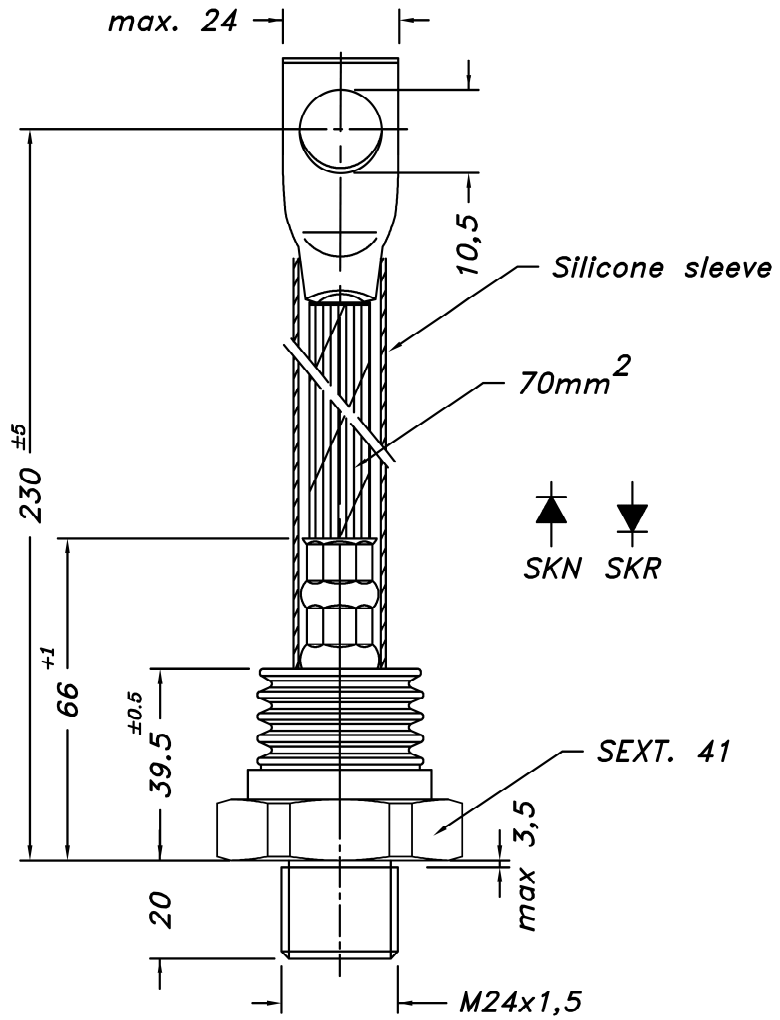


Fig. 6 Surge overload current vs. time

 © by SEMIKRON

Dimensions in mm



Case E17 (IEC 60191: A 22 B)

* 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.

 © by SEMIKRON

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Rectifiers ***category:***

Click to view products by Semikron ***manufacturer:***

Other Similar products are found below :

D91A DA24F4100L DD89N1600K-A DD89N16K-K RL252-TP DLA11C-TR-E DSA17G 1N4005-TR BAV199-TP UFS120Je3/TR13 JANS1N6640US VS-80-1293 DD89N16K DD89N16K-A 481235F DSP10G-TR-E RRE02VS6SGTR 067907F MS306 ND104N08K SPA2003-B-D-A01 VS-80-6193 VS-66-9903 VGF0136AB US2JFL-TP UFS105Je3/TR13 A1N5404G-G ACGRA4007-HF ACGRB207-HF RF301B2STL RF501B2STL UES1306 UES1302 BAV199E6433HTMA1 ACGRC307-HF ACEFC304-HF JANTXV1N5660A UES1106 GS2K-LTP D126A45C D251N08B SCHJ22.5K SM100 SCPA2 SCH10000 SDHD5K STTH20P035FP VS-8EWS12S-M3 VS-12FL100S10 ACGRA4001-HF