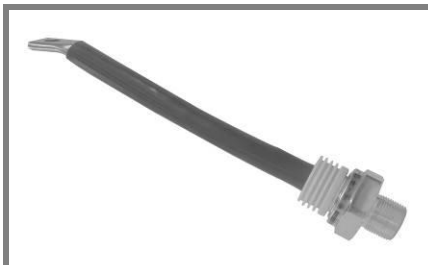


SKN 400, SKR 400



Stud Diode

V_{RSM} V	V_{RRM} V	$I_{FRMS} = 700$ A (maximum value for continuous operation) $I_{FAV} = 400$ A (sin. 180; $T_c = 100$ °C)	
1800	1800	SKN 400/18	SKR 400/18
2000	2000	SKN 400/20	SKR 400/20
2400	2400	SKN 400/24	SKR 400/24
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 μ F, 20 Ω ($P_R = 5$ W),
Rp: 25 K Ω ($P_R = 20$ W)

1) Mounting with grease-like thermal compound or joint contact compound

Symbol	Condition	Values	Units
I_{FAV}	sin. 180 ; $T_c = 85$ (100) °C	445 (400)	A
I_D	K 0,55; $T_a = 45$ °C; B2 / B6 K 0,55F; $T_a = 35$ °C; B2 / B6	310 / 450 700 / 1000	A A
I_{FSM}	$T_{vj} = 25^\circ$ C ; 10 ms $T_{vj} = 160^\circ$ C ; 10 ms	9000 7500	A A
i^2t	$T_{vj} = 25^\circ$ C ; 8,3...10 ms $T_{vj} = 160^\circ$ C ; 8,3...10 ms	400000 280000	A ² s A ² s
V_F	$T_{vj} = 25^\circ$ C, $I_F = 1200$ A	max. 1,45	V
$V_{(TO)}$	$T_{vj} = 160^\circ$ C	max. 0,9	V
r_T	$T_{vj} = 160^\circ$ C	max. 0,5	m Ω
I_{RD}	$T_{vj} = 160^\circ$ C ; $V_R = V_{RRM}$	max. 60	mA
Q_{rr}	$T_{vj} = 160^\circ$ C, $-di_F/dt = 10$ A/ μ s	typ. 400	μ C
$R_{th(j-c)}$		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 to heatsink (lubricated ¹)	60 48	Nm Nm
a		5 * 9,81	m/s ²
m	approx.	500	g
Case		E 17	

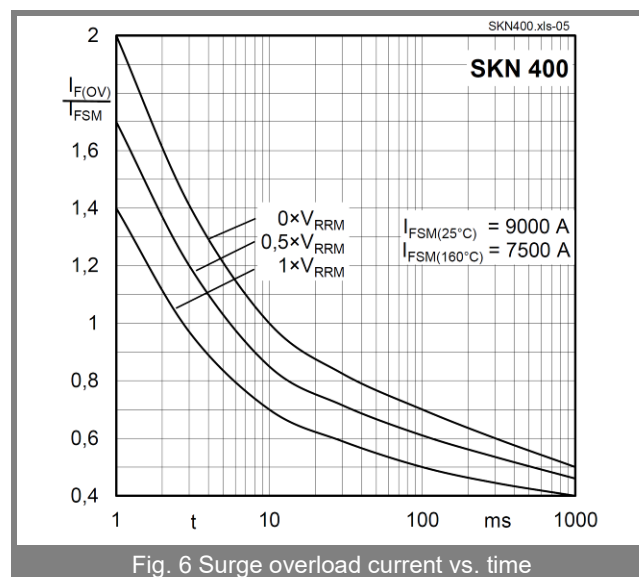
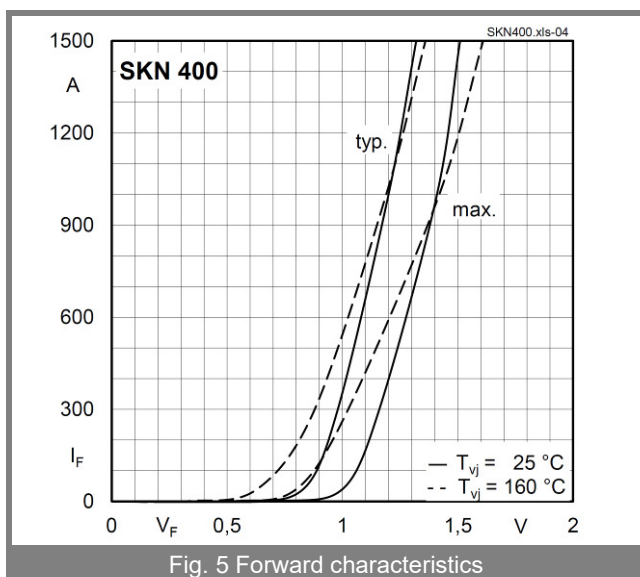
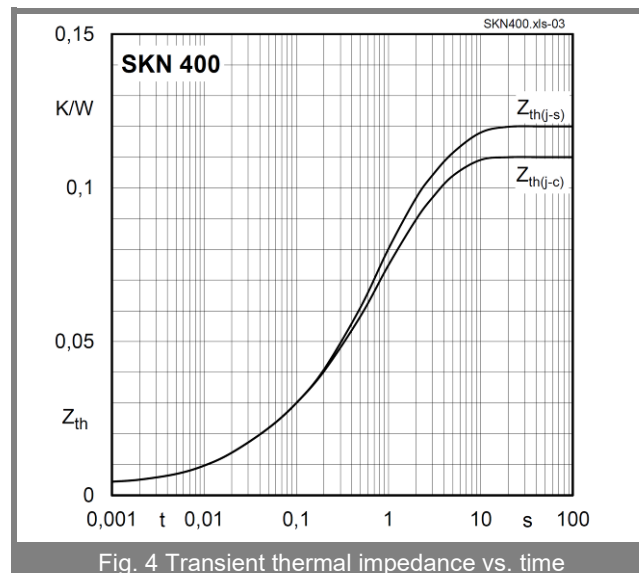
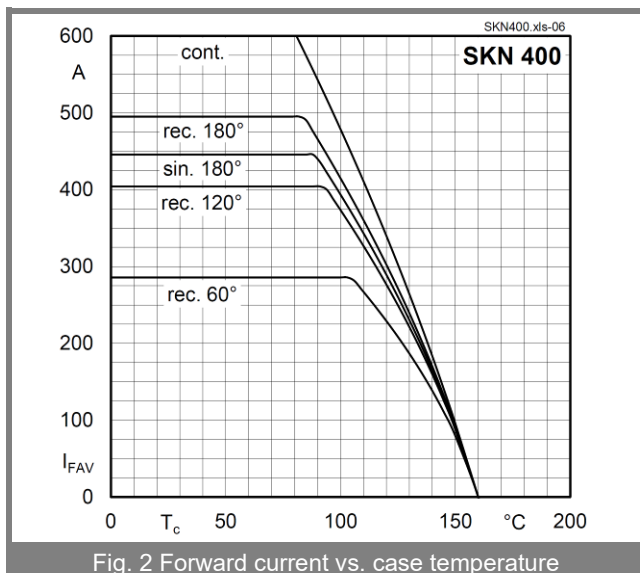
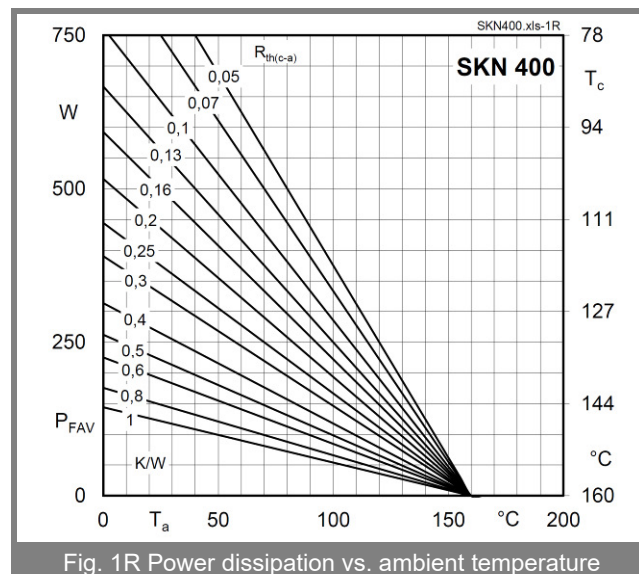
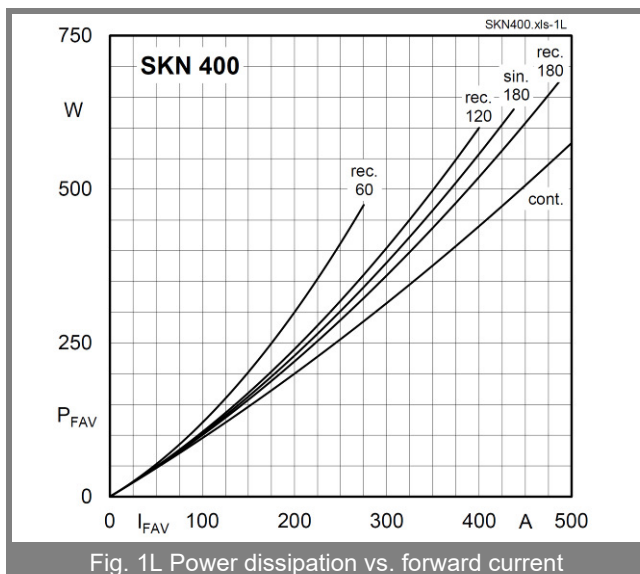


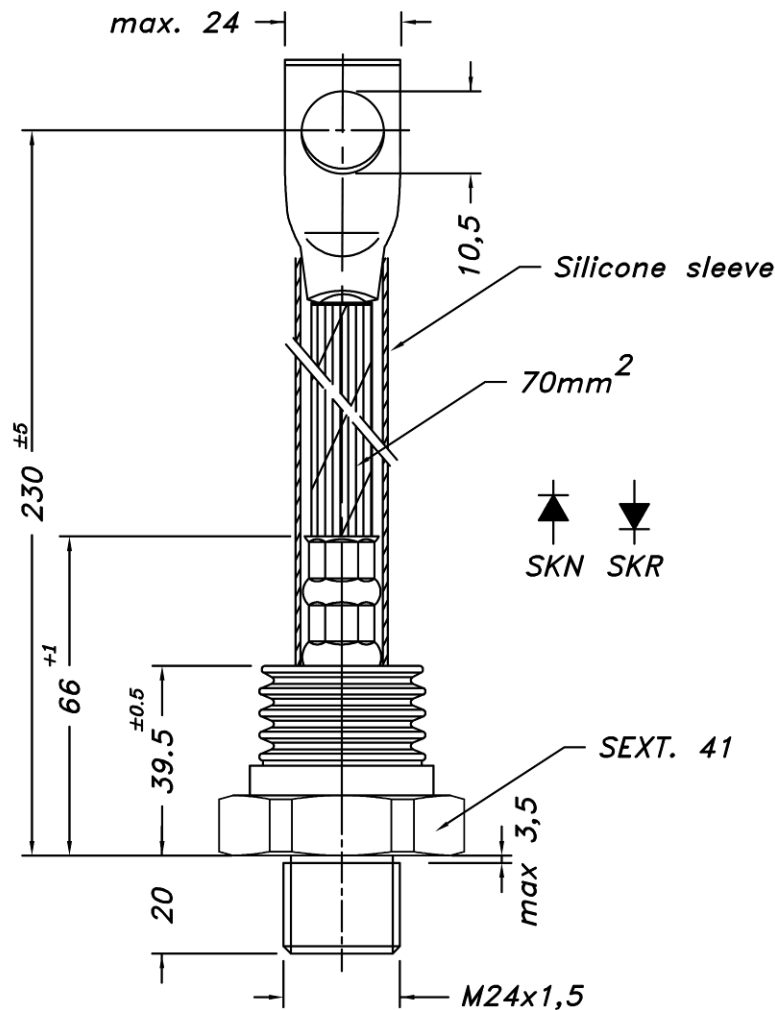
SKN



SKR

SKN 400, SKR 400





Case E17 (IEC 60191: A 22 B)

*IMPORTANT INFORMATION AND WARNINGS

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