# SKN 600, SKR 600



V <sub>RSM</sub>	V <sub>RRM</sub>	I <sub>FRMS</sub> = 950 A (maximum value for continuous operation)	
V	V	I <sub>FAV</sub> = 600 A (sin. 180; T <sub>c</sub> = 105 °C)	
400	400	SKN 600/04	SKR 600/04
800	800	SKN 600/08	SKR 600/08
1200	1200	SKN 600/12	SKR 600/12
1600	1600	SKN 600/16	SKR 600/16

## Stud Diode

## **Rectifier Diode**

#### SKN 600 SKR 600

### Features

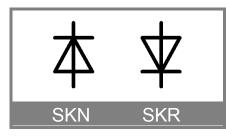
- Reverse voltages up to 1600 V
- Hermetic metal cases with
  glass insulator
- Threaded stud M24 x 1,5 mm (3/4 16 UNF 2A and M20 x 1,5 mm available)<sup>2)</sup>
- Optional silicone sleeve (red for SKN and blue for SKR)
- SKN: anode to stud
- SKR: cathode to stud

### **Typical Applications \***

- All purpose high power rectifier diodes
- Cooling via heatsinks
- Non-controllable and halfcontrollable rectifiers
- Free-wheeling diodes
- Recommended snubber network: RC: 1,0 μF, 20 Ω (P<sub>R</sub> = 2W), R<sub>0</sub>: 25 KΩ (P<sub>R</sub> = 20 W)

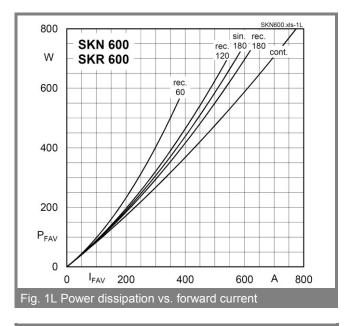
1) Mounting with grease-like thermal compound or joint contact compound

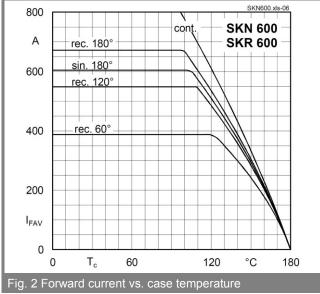
2) M24x1,5 is standard; "UNF" should be added in description for ¾ - 16 UNF 2A thread, while "M20" should be added in description for M20x1,5 thread

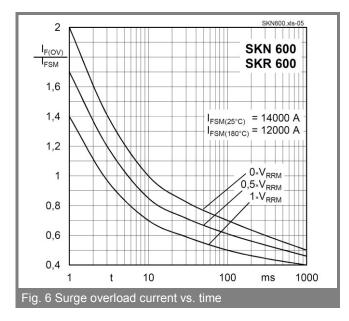


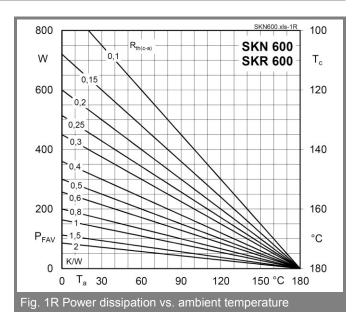
Symbol	Condition	Values	Units
I <sub>FAV</sub>	sin. 180 ; T <sub>C</sub> = 105 (125) °C	600 (475)	А
I <sub>FSM</sub> i <sup>2</sup> t	$\begin{array}{l} T_{vi} = 25^{\circ} \ C \ ; \ 10 \ ms \\ T_{vi} = 180^{\circ} \ C \ ; \ 10 \ ms \\ T_{vi} = 25^{\circ} \ C \ ; \ 8,310 \ ms \\ T_{vi} = 180^{\circ} \ C \ ; \ 8,310 \ ms \end{array}$	14000 12000 980000 720000	$ \begin{array}{c} A \\ A \\ A^2 s \\ A^2 s \end{array} $
V <sub>F</sub> V <sub>(TO)</sub> r <sub>T</sub> I <sub>RD</sub> Q <sub>rr</sub>	$\begin{array}{l} T_{vi} = 25^{\circ} \ \text{C}, \ \text{I}_{\text{F}} = 1500 \ \text{A} \\ T_{vi} = 180^{\circ} \ \text{C} \\ T_{vj} = 180^{\circ} \ \text{C} \\ T_{vi} = 180^{\circ} \ \text{C} \ ; \ \ \text{V}_{\text{R}} = \text{V}_{\text{RRM}} \\ T_{vi} = 160^{\circ} \ \text{C}, \ -\text{di}_{\text{F}}/\text{dt} = 10 \ \text{A}/\mu\text{s} \end{array}$	max. 1,33 max. 0,8 max. 0,3 max. 100 typ. 330	V V mΩ mA µC
R <sub>th(i-c)</sub> R <sub>th(c-s)</sub> T <sub>vj</sub> T <sub>stg</sub>		0,1 0,015 -40+180 -55+180	K/W K/W °C °C
V <sub>isol</sub> M <sub>s</sub>	M24 x 1,5mm (lubricated) <sup>1)</sup> 3/4 - 16 UNF (lubricated) <sup>1)</sup> M20 x 1,5mm (lubricated) <sup>1)</sup>	- 60 (48) 30 (24) 40 (32) 5 * 9,81	V~ Nm Nm Nm m/s <sup>2</sup>
m	approx.	500	g
Case		E16	

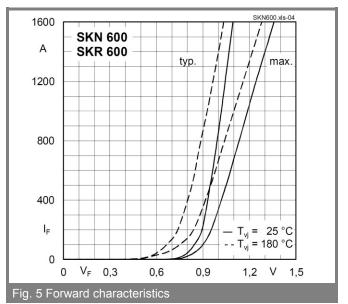
# SKN 600, SKR 600





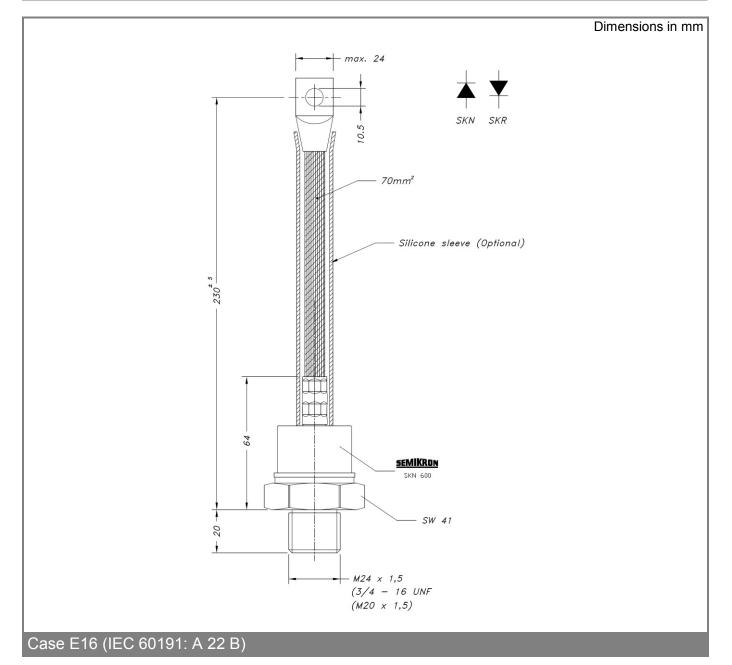






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