# SKN 46, SKR 46



V <sub>RSM</sub>	V <sub>RRM</sub>	I <sub>FRMS</sub> = 80 A (maximum value for continuous operation)	
V	V	I <sub>FAV</sub> = 45 A (sin. 180; T <sub>c</sub> = 125 °C)	
400	400	SKN 46/04	SKR 46/04
800	800	SKN 46/08	SKR 46/08
1200	1200	SKN 46/12	SKR 46/12
1400	1400	SKN 46/14	SKR 46/14
1600	1600	SKN 46/16	SKR 46/16

### Stud Diode

### **Rectifier Diode**

SKN	46
SKR	46

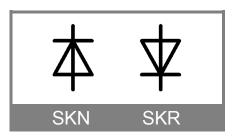
#### Features

- Reverse voltages up to 1600 V
- Hermetic metal case with glass
  insulator
- Cooling via heatsinks
- Threaded stud ISO M8 or 1/4 - 28 UNF 2A
- **SKN:** anode to stud
- SKR: cathode to stud

#### **Typical Applications \***

- All purpose high power rectifier diode
- Non-controllable and halfcontrollable rectifiers
- Free-wheeling diodes
- Recommended snubber network: RC: 0,1 μF, 100 Ω (P<sub>R</sub> = 1W), R<sub>p</sub>: 80 kΩ (P<sub>R</sub> = 6 W)

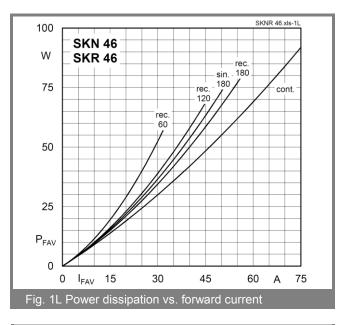
1) Mounting with grease-like thermal compound or joint contact compound

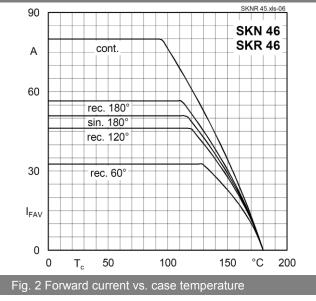


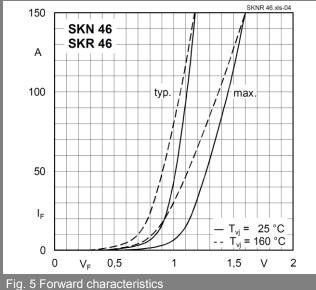
Symbol	Condition	Values	Units
I <sub>FAV</sub> I <sub>D</sub>	sin. 180 ; T <sub>C</sub> = 118 °C K 5; T <sub>a</sub> = 45°C; B2 / B6 K 1,1; T <sub>a</sub> = 45°C; B2 / B6	50 40 / 57 86 / 120	A A A
I <sub>FSM</sub> i <sup>2</sup> t	T <sub>vi</sub> = 25° C ; 10 ms T <sub>vi</sub> = 180° C ; 10 ms T <sub>vi</sub> = 25° C ; 8,310 ms T <sub>vi</sub> = 180° C ; 8,310 ms	700 600 2500 1800	$A \\ A^{2}s \\ A^{2}s \\ A^{2}s$
$V_{F}$ $V_{(TO)}$ $r_{T}$ $I_{RD}$ $Q_{rr}$	$\begin{array}{l} T_{vj} = 25^{\circ} \ C, \ I_{F} = 150 \ A \\ T_{vj} = 180^{\circ} \ C \\ T_{vj} = 180^{\circ} \ C \\ T_{vi} = 180^{\circ} \ C \ ; \ V_{RD} = V_{RRM} \\ T_{vj} = 160^{\circ} \ C, \ -di_{F}/dt = 10 \ A/\mu s \end{array}$	max. 1,6 max. 0,85 max. 5 max. 10 70	V V mΩ mA μC
R <sub>th(i-c)</sub> R <sub>th(c-s)</sub> T <sub>vi</sub> T <sub>stg</sub>		0,85 0,25 -40+180 -55+180	K/W K/W °C °C
V <sub>isol</sub> M <sub>s</sub> a m	M8 Stud ¼ - 28 UNF 2A M8 Stud (lubricated) <sup>1)</sup> ¼ - 28 UNF 2A (lubricated) <sup>1)</sup> approx.	- 4 2,5 3 2 5 * 9,81 18	V~ Nm Nm Nm m/s <sup>2</sup> g
Case		E 11	

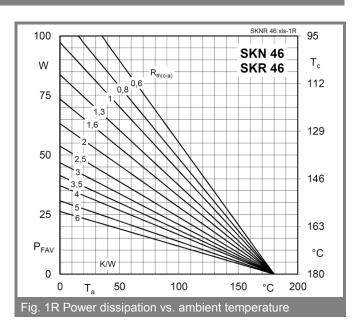
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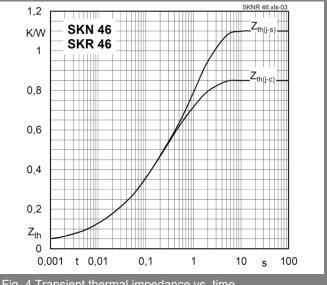
## **SKN 46, SKR 46**

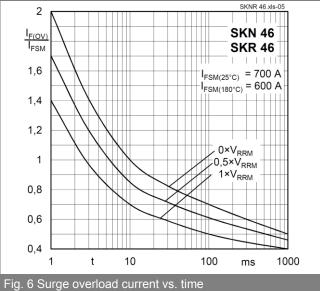


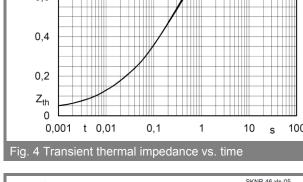












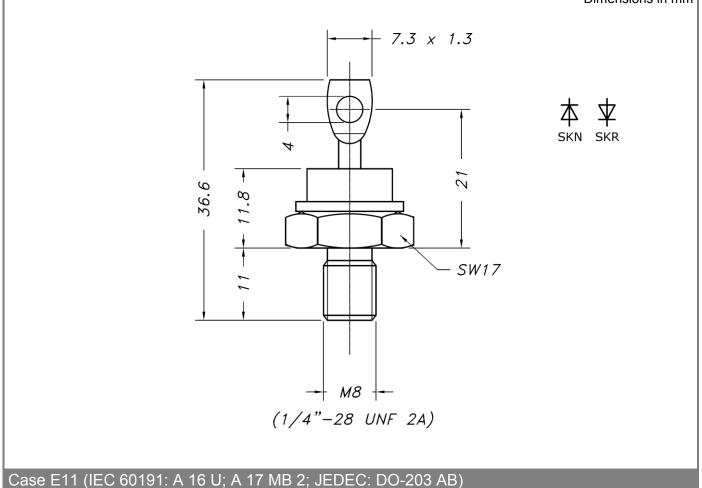


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## SKN 46, SKR 46

Dimensions in mm



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