SKN 71, SKR 71



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V _{RSM}	V _{RRM} V	I_{FRMS} = 150 A (maximum value for continuous operation) I_{FAV} = 72 A (sin. 180; T_c = 125 $^{\circ}$ C)		
200	200	SKN 71/02	SKR 71/02	
400	400	SKN 71/04	SKR 71/04	
800	800	SKN 71/08	SKR 71/08	
1200	1200	SKN 71/12	SKR 71/12	
1400	1400	SKN 71/14	SKR 71/14	
1600	1600	SKN 71/16	SKR 71/16	

Rectifier Diode

SKN 71 SKR 71

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 studSKR: cathode to stud

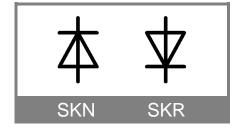
Typical Applications *

- All purpose high power rectifier diodes
- Non-controllable and halfcontrollable rectifiers
- Free-wheeling diodes
- Recommended snubber network:

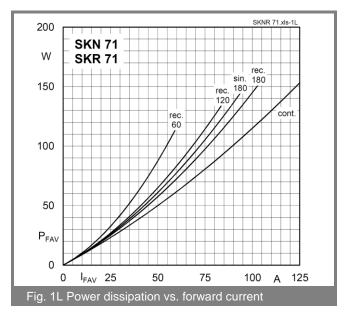
 R_{C} : 0,1 μ F, 100 Ω (P_{R} = 2W), R_{p} : 80 $k\Omega$ (P_{R} = 6 W)

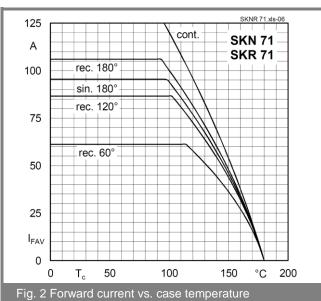
1) Mounting with grease-like thermal compound or joint contact compound

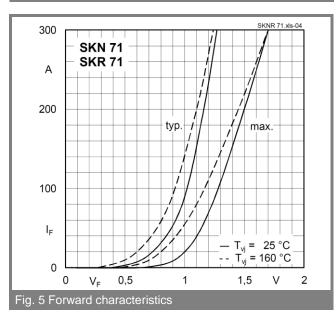
Symbol	Condition	Values	Units
I _{FAV} I _D	sin. 180 ; T _C = 100 °C K 1,1; T _a = 45°C; B2 / B6 K 1,1F; T _a = 35°C; B2 / B6	94 112 / 159 174 / 246	A A A
I _{FSM}	$\begin{split} T_{vj} &= 25^{o} \text{ C} \text{ ; } 10 \text{ ms} \\ T_{vi} &= 180^{o} \text{ C} \text{ ; } 10 \text{ ms} \\ T_{vi} &= 25^{o} \text{ C} \text{ ; } 8,310 \text{ ms} \\ T_{vi} &= 180^{o} \text{ C} \text{ ; } 8,310 \text{ ms} \end{split}$	1150 1000 6600 5000	$ \begin{array}{c} A \\ A \\ A^2 s \\ A^2 s \end{array} $
$V_F \\ V_{(TO)} \\ r_T \\ I_{RD} \\ Q_{rr}$	$\begin{split} T_{vj} &= 25^{\circ} \text{ C, } I_{F} = 200 \text{ A} \\ T_{vj} &= 180^{\circ} \text{ C} \\ T_{vj} &= 180^{\circ} \text{ C} \\ T_{vj} &= 180^{\circ} \text{ C ; } V_{RD} = V_{RRM} \\ T_{vj} &= 160^{\circ} \text{ C, } -di_{F}/dt = 10 \text{ A/}\mu\text{s} \end{split}$	max. 1,5 max. 0,85 max. 3 max. 10 70	V V mΩ mA μC
$ \begin{array}{c} R_{th(i\text{-}c)} \\ R_{th(c\text{-}s)} \\ T_{vi} \\ T_{stg} \end{array} $		0,55 0,2 -40+180 -55+180	K/W K/W °C °C
V _{isol} M _s	M8 Stud 1/4 - 28 UNF 2A M8 Stud (lubricated) 1/4 - 28 UNF 2A (lubricated) 1/4 - 28 UNF 2A (lubricated) 1/1 approx.	- 4 2,5 3 2 5 * 9,81 18	V~ Nm Nm Nm Nm m/s ²
Case		E 11	

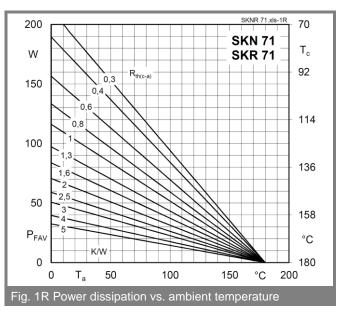


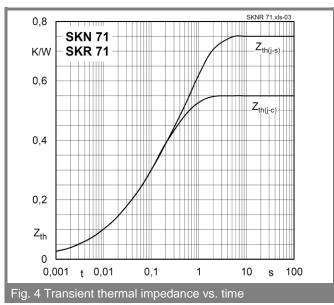
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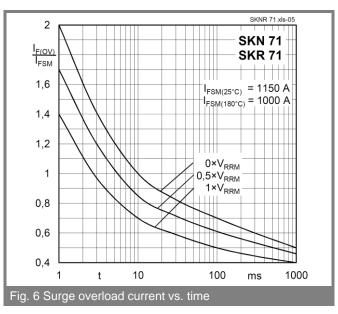


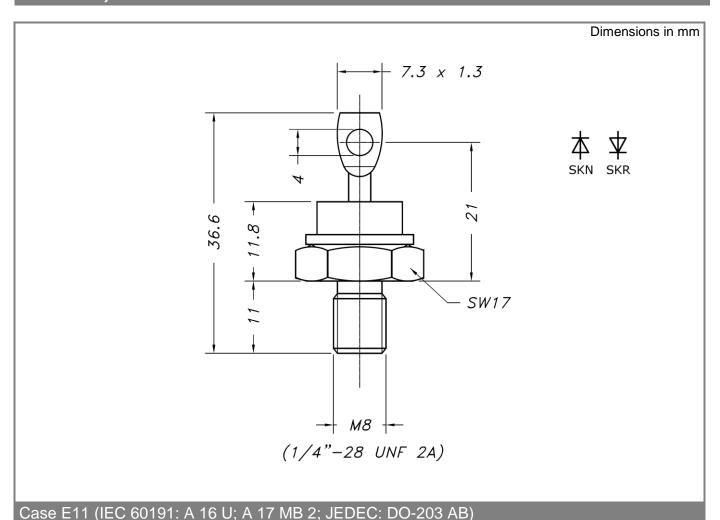












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