SKN 70, SKR 70



V _{RSM} V	V _{RRM} V	$\label{eq:IFRMS} \begin{array}{l} I_{\text{FRMS}} = 150 \text{ A} \mbox{ (maximum value for continuous operation)} \\ I_{\text{FAV}} = 72 \text{ A} \mbox{ (sin. 180; } T_c = 125 ^{\circ}\text{C}) \end{array}$	
400	400	SKN 70/04	SKR 70/04
800	800	SKN 70/08	SKR 70/08
1200	1200	SKN 70/12	SKR 70/12
1400	1400	SKN 70/14	SKR 70/14
1600	1600	SKN 70/16	SKR 70/16

Stud Diode

Rectifier Diode

SKN 70 SKR 70

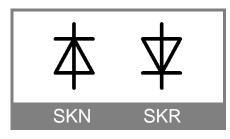
Features

- Reverse voltages up to 1600 V
- Hermetic metal case with glass insulator
- Cooling via heatsinks
- Threaded stud ISO M8, M6 or ¼ - 28 UNF 2A²)
- SKN: anode to stud
- SKR: cathode to stud

Typical Applications *

- All purpose high power rectifier diodes
- Non-controllable and halfcontrollable rectifiers
- Free-wheeling diodes
- Recommended snubber network: Rc: 0,1 μF, 100 Ω (P_R = 2W), R_p: 80 kΩ (P_R = 6 W)

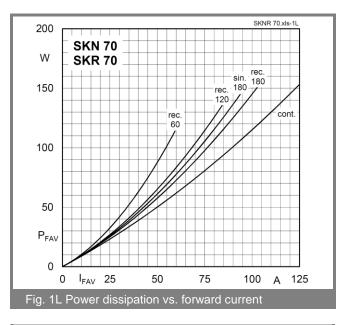
 Mounting with grease-like thermal compound or joint contact compound
M8x1,25 is standard, "UNF" should be added in description for ¼ - 28 2A thread, while "M6" must be added for M6x1 thread

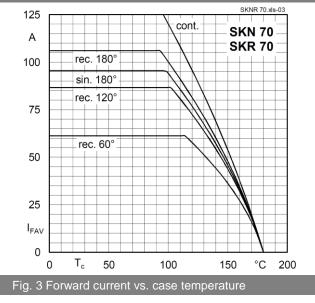


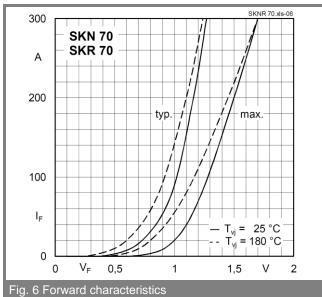
Symbol	Condition	Values	Units
Ifav I _D	sin. 180 ; T _c = 100 °C K 1,1; T _a = 45°C; B2 / B6 K 1,1F; T _a = 35°C; B2 / B6	94 112 / 159 174 / 246	A A A
I _{FSM} i²t	$\begin{array}{l} T_{vj} = 25^{\circ} \mbox{ C } ; \ 10 \mbox{ ms} \\ T_{vj} = 180^{\circ} \mbox{ C } ; \ 10 \mbox{ ms} \\ T_{vj} = 25^{\circ} \mbox{ C } ; \ 8,310 \mbox{ ms} \\ T_{vj} = 180^{\circ} \mbox{ C } ; \ 8,310 \mbox{ ms} \end{array}$	1150 1000 6600 5000	A A A ² s A ² s
VF V _(TO) ľt Ird Qrr	$\begin{array}{l} T_{vj} = 25^{\circ} \ C, \ I_{F} = 200 \ A \\ T_{vj} = 180^{\circ} \ C \\ T_{vj} = 180^{\circ} \ C \\ T_{vj} = 180^{\circ} \ C \ ; \ V_{RD} = V_{RRM} \\ T_{vj} = 160^{\circ} \ C, \ -di_{F}/dt = 10 \ A/\mu s \end{array}$	max. 1,5 max. 0,85 max. 3 max. 10 70	V V mΩ mA µC
Rth(j-c) Rth(c-s) T _{vj} Tstg		0,55 0,2 -40+180 -55+180	к/W к/W °С °С
V _{isol} Ms m	M8 Stud M6 or ¼ - 28 UNF 2A M8 Stud (lubricated) ¹⁾ M6 or ¼ - 28 UNF 2A (lubricated) ¹⁾ approx.	- 4 2,5 3 2 5 * 9,81 30	V~ Nm Nm Nm m/s ² g
Case		E 12	

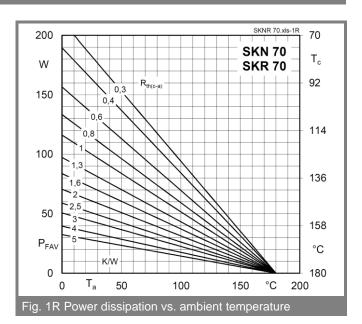
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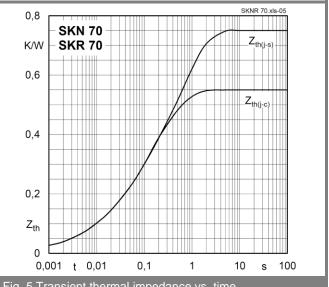
SKN 70, SKR 70

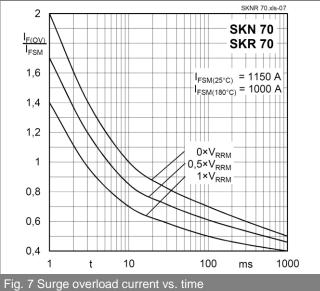




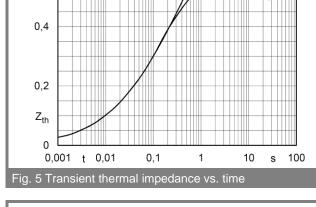


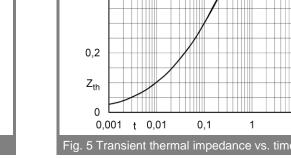






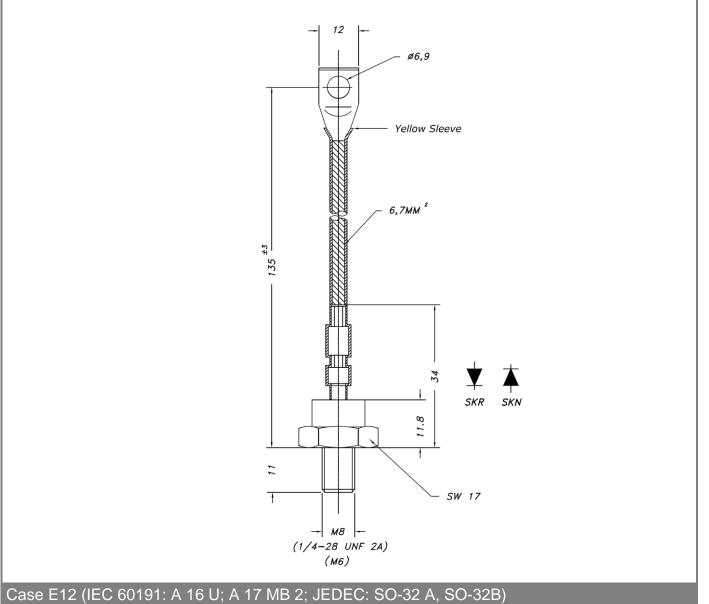
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SKN 70, SKR 70

Dimensions in mm



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