SKN 71, SKR 71



Stud Diode

V _{RSM} V	V _{RRM}	I _{FRMS} = 150 A (maximum value for continuous operation) I _{FAV} = 72 A (sin. 180; T _c = 125 °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, M6 or ¼ - 28 UNF 2A²⁾
- SKN: anode to studSKR: cathode to stud

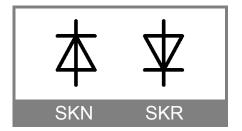
Typical Applications *

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

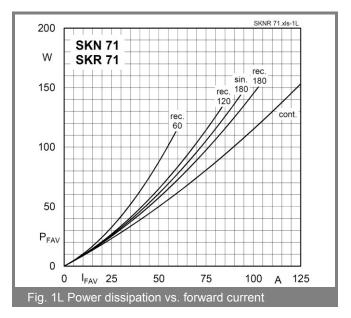
R_C: 0,1 μ F, 100 Ω (P_R = 2W), R_p: 80 k Ω (P_R = 6 W)

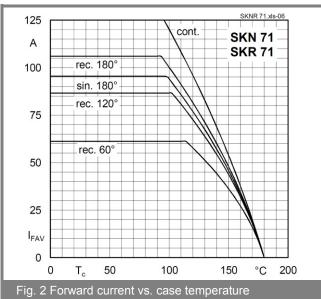
1) Mounting with grease-like thermal compound or joint contact compound 2) M8x1,25 is standard, "UNF" should be added in description for ¼ - 28 2A thread, while "M6" must be added for M6x1

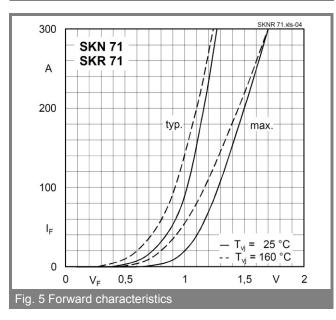
Symbol	Condition	Values	Units
I _{FAV}	sin. 180 ; T _C = 100 °C K 1,1; T _a = 45°C; B2 / B6 K 1,1F; T _a = 35°C; B2 / B6	94 112 / 159 174 / 246	A A A
I _{FSM} i ² t	T_{vj} = 25° C ; 10 ms T_{vj} = 180° C ; 10 ms T_{vj} = 25° C ; 8,310 ms T_{vj} = 180° C ; 8,310 ms	1150 1000 6600 5000	A A A ² s A ² s
V _F V _(TO) r _T I _{RD} Q _{rr}	$T_{vj} = 25^{\circ} \text{ C}, I_F = 200 \text{ A}$ $T_{vj} = 180^{\circ} \text{ C}$ $T_{vj} = 180^{\circ} \text{ C}$ $T_{vj} = 180^{\circ} \text{ C}$; $V_{RD} = V_{RRM}$ $T_{vj} = 160^{\circ} \text{ C}$, $-\text{di}_F/\text{dt} = 10 \text{ A}/\mu\text{s}$	max. 1,5 max. 0,85 max. 3 max. 10 70	V V mΩ mA μC
Rth(j-c) Rth(c-s) Tvj		0,55 0,2 -40+180 -55+180	K/W K/W °C °C
V _{isol} M _s	M8 Stud M6 or ½ - 28 UNF 2A M8 Stud (lubricated)¹¹ M6 or ½ - 28 UNF 2A (lubricated)¹¹ approx.	- 4 2,5 3 2 5 * 9,81 18	V~ Nm Nm Nm Nm m/s²
Case		E 11	

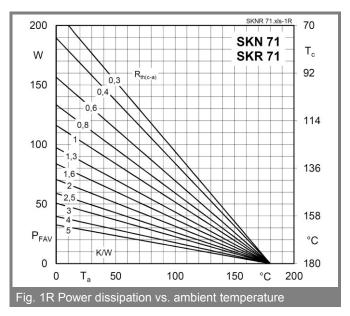


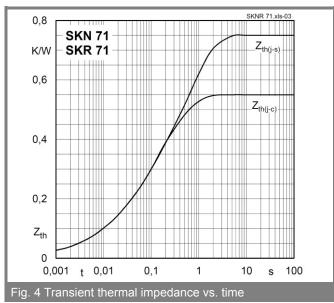
SKN 71, SKR 71

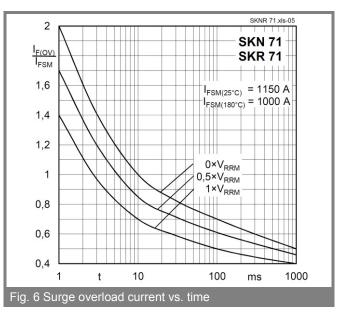


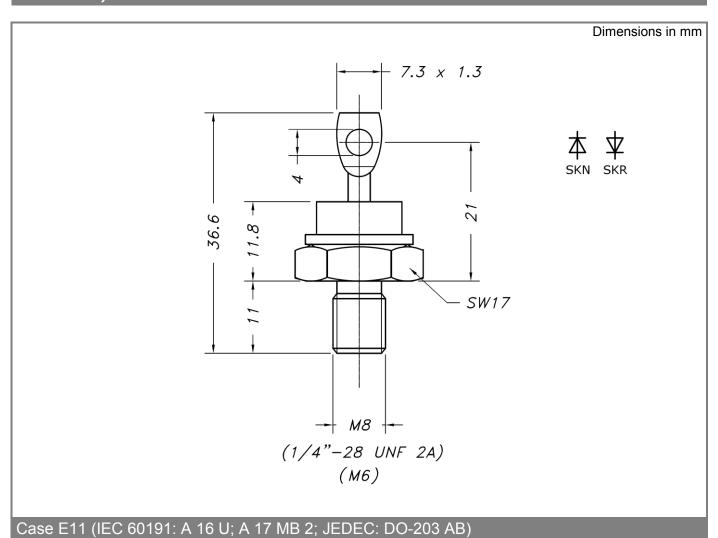












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