SKN 71, SKR 71



Symbol

FAV

IFSM

i²t

Vf

rт

RD

Qrr

Rth(j-c)

R_{th(c-s)} T_{vj}

Tstg

Visol

Мs

V_(TO)

I_D

Condition

sin. 180 ; Tc = 100 °C

 $T_{vj} = 25^{\circ} C$; 10 ms

 $T_{vj} = 180^{\circ} \text{ C}$; 10 ms

 $T_{vj} = 25^{\circ} C$; 8,3...10 ms

T_{vi} = 180° C ; 8,3...10 ms

 $T_{vj} = 180^{\circ} C$; $V_{RD} = V_{RRM}$

 $T_{vi} = 160^{\circ}C$, $-di_F/dt = 10 A/\mu s$

 $T_{vj} = 25^{\circ} C, I_F = 200 A$

M6 or ¼ - 28 UNF 2A

T_{vi} = 180° C

 $T_{vi} = 180^{\circ} C$

M8 Stud

K 1,1; T_a = 45°C; B2 / B6

K 1,1F; T_a = 35°C; B2 / B6

V _{RSM} V	V _{RRM} V	$I_{FRMS} = 150 \text{ A (maximum value for continuous operation)} \\ I_{FAV} = 72 \text{ A (sin. 180; } T_c = 125 \ ^{\circ}\text{C}\text{)}$	
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

Values

94

112 / 159

174 / 246

1150

1000

6600

5000

max. 1,5

max. 0,85

max. 3

max, 10

70

0,55 0.2

-40...+180

-55...+180

4

2,5

Units

А

А

А

А

А

A²s

A²s

V

V

mΩ

mΑ

μC

K/W

K/W

°C

°C

V~

Nm

Nm

Nm

Nm

m/s²

g

Stud Diode

Rectifier Diode

SKN 71 SKR 71

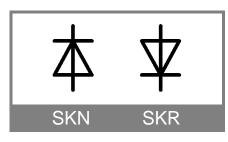
Features

- 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 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)

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



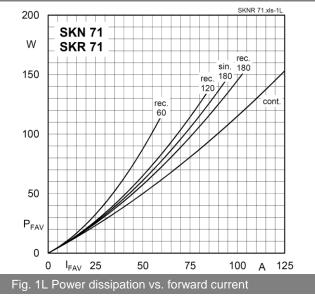
a m	M8 Stud (lubricated) ¹⁾ M6 or $\frac{1}{4}$ - 28 UNF 2A (lubricated) ¹⁾ approx.	2,0 3 2 5 * 9,81 18
Case		E 11
		<u> </u>

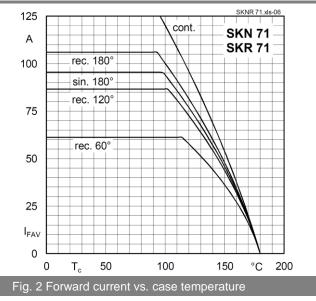
1

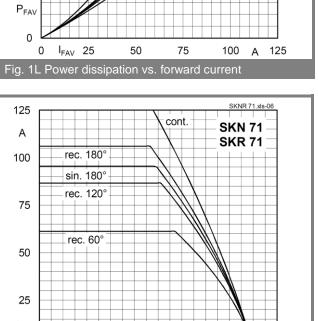
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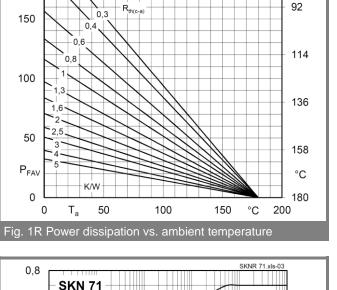
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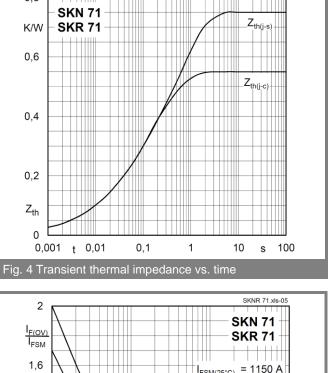
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SKN 71

SKR 71

70

 T_{c}





200

W

150

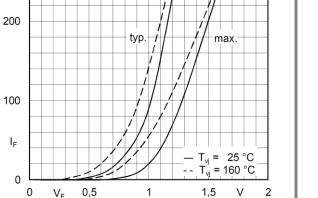
100

50

 $\mathsf{P}_{\mathsf{FAV}}$

0

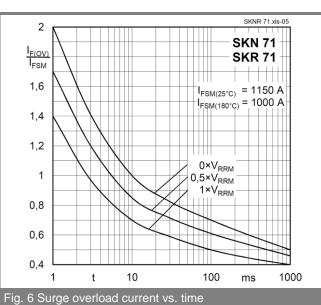
0



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2

300

А

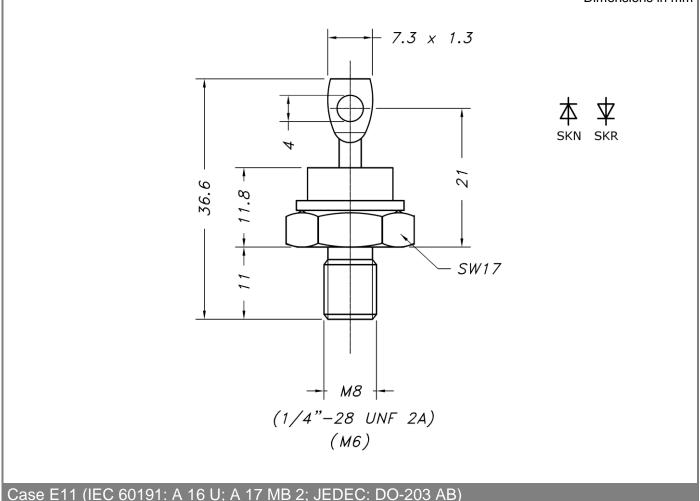
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Fig. 5 Forward characteristics

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Dimensions in mm



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