# SKN 70, SKR 70



V <sub>RSM</sub>	V <sub>RRM</sub>	I <sub>FRMS</sub> = 150 A (maximum value for continuous operation)	
V	V	I <sub>FAV</sub> = 72 A (sin. 180; T <sub>c</sub> = 125 °C)	
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 <sup>1</sup>/<sub>4</sub> - 28 UNF 2A<sup>2</sup>)
- 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:
  R<sub>C</sub>: 0,1 μF, 100 Ω (P<sub>R</sub> = 2W),
  R<sub>p</sub>: 80 kΩ (P<sub>R</sub> = 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 thread



Symbol	Condition	Values	Units
lfav I <sub>D</sub>	sin. 180 ; T <sub>C</sub> = 100 °C K 1,1; T <sub>a</sub> = 45°C; B2 / B6 K 1,1F; T <sub>a</sub> = 35°C; B2 / B6	94 112 / 159 174 / 246	A A A
I <sub>FSM</sub> i²t	$\begin{array}{l} T_{vj} = 25^{\circ} \ C \ ; \ 10 \ ms \\ T_{vj} = 180^{\circ} \ C \ ; \ 10 \ ms \\ T_{vj} = 25^{\circ} \ C \ ; \ 8,310 \ ms \\ T_{vj} = 180^{\circ} \ C \ ; \ 8,310 \ ms \end{array}$	1150 1000 6600 5000	A A A <sup>2</sup> s A <sup>2</sup> s
VF V <sub>(TO)</sub> 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 μC
Rth(j-c) Rth(c-s) T <sub>vj</sub> Tstg		0,55 0,2 -40+180 -55+180	ဂံ ဂံ XX XX
V <sub>isol</sub> Ms m	M8 Stud M6 or <sup>1</sup> ⁄ <sub>4</sub> - 28 UNF 2A M8 Stud (lubricated) <sup>1)</sup> M6 or <sup>1</sup> ⁄ <sub>4</sub> - 28 UNF 2A (lubricated) <sup>1)</sup> approx.	4 2,5 3 2 5 * 9,81 30	V~ Nm Nm Nm m/s <sup>2</sup> g
Case		E 12	

### 2021-06-09 RP

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Dimensions in mm



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