SKN 70, SKR 70



| V _{RSM} | V _{RRM} | I_{FRMS} = 150 A (maximum value for continuous operation) | |
|------------------|------------------|---|-----------|
| V | V | I_{FAV} = 72 A (sin. 180; T _c = 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 or ¼ - 28 UNF 2A
- 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_C: 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



| 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} i ² t | $\begin{array}{l} T_{vj} = 25^{\circ} \ C \ ; \ 10 \ ms \\ T_{vi} = 180^{\circ} \ C \ ; \ 10 \ ms \\ T_{vi} = 25^{\circ} \ C \ ; \ 8,310 \ ms \\ T_{vi} = 180^{\circ} \ C \ ; \ 8,310 \ ms \end{array}$ | 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} | $\begin{array}{l} T_{vj} = 25^{o} \ C, \ I_{F} = 200 \ A \\ T_{vj} = 180^{o} \ C \\ T_{vj} = 180^{o} \ C \\ T_{vi} = 180^{o} \ C \ ; \ V_{RD} = V_{RRM} \\ T_{vj} = 160^{o} \ C, \ -di_{F}/dt = 10 \ A/\mu s \end{array}$ | max. 1,5 max. 0,85 max. 3 max. 10 70 | V V mA μC |
| R _{th(i-c)} R _{th(c-s)} T _{vi} T _{stg} | | 0,55 0,2 -40+180 -55+180 | K∕W ℃ ℃ |
| V _{isol} M _s m | M8 Stud ¼ - 28 UNF 2A M8 Stud (lubricated) ¹⁾ 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 | |

2017-03-10 RP

SKN 70, SKR 70















2017-03-10 RP

SKN 70, SKR 70





*IMPORTANT INFORMATION AND WARNINGS

The specifications of SEMIKRON products may not be considered as guarantee or assurance of product characteristics ("Beschaffenheitsgarantie"). The specifications of SEMIKRON products describe only the usual characteristics of products to be expected in typical applications, which may still vary depending on the specific application. Therefore, products must be tested for the respective application in advance. Application adjustments may be necessary. The user of SEMIKRON products is responsible for the safety of their applications embedding SEMIKRON products and must take adequate safety measures to prevent the applications from causing a physical injury, fire or other problem if any of SEMIKRON products become faulty. The user is responsible to make sure that the application design is compliant with all applicable laws, regulations, norms and standards. Except as otherwise explicitly approved by SEMIKRON in a written document signed by authorized representatives of SEMIKRON, SEMIKRON products may not be used in any applications where a failure of the product or any consequences of the use thereof can reasonably be expected to result in personal injury. No representation or warranty is given and no liability is assumed with respect to the accuracy, completeness and/or use of any information herein, including without limitation, warranties of non-infringement of intellectual property rights of any third party. SEMIKRON does not assume any liability arising out of the applications or use of any product; neither does it convey any license under its patent rights, copyrights, trade secrets or other intellectual property rights, nor the rights of others. SEMIKRON makes no representation or warranty of non-infringement or alleged noninfringement of intellectual property rights of any third party which may arise from applications. Due to technical requirements our products may contain dangerous substances. For information on the types in question please contact the nearest SEMIKRON sales office. This document supersedes and replaces all information previously supplied and may be superseded by updates. SEMIKRON reserves the right to make changes.

© by SEMIKRON

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Rectifiers category:

Click to view products by Semikron manufacturer:

Other Similar products are found below :

FERD15S50SB-TR D91A DA24F4100L DD89N1600K-A DD89N16K-K RL252-TP JANTX1N4148UB 1N4005-TR HER206G-TP 431464H BAV199-TP BY249-600 BYV95A UES1306HR2 UF4003-TP UFS120Je3/TR13 JANS1N5420 JANS1N6640US UT4040 DD89N16K-A 481235F RRE02VS6SGTR 067907F MS306 ND104N08K SPA2003-B-D-A01 VS-80-6193 VS-66-9903 VGF0136AB US2JFL-TP UFS105Je3/TR13 A1N5404G-G ACGRA4007-HF ACGRB207-HF RF301B2STL RF501B2STL VS-S1581 1SS355 RR UES1306 UES1302 BAV199E6433HTMA1 ACGRC307-HF ACEFC304-HF DZ-1380 JANTXV1N5637A JANTX1N5555 JANTXV1N5660A JAN1N5555 MUH1PCHM389A UES1106