SKN 320, SKR 320



V _{RSM} V	V _{RRM}	I_{FRMS} = 700 A (maximum value for continuous operation) I_{FAV} = 320 A (sin. 180; T_c = 120 °C)	
400	400	SKN 320/04	SKR 320/04
800	800	SKN 320/08	SKR 320/08
1200	1200	SKN 320/12	SKR 320/12
1400	1400	SKN 320/14	SKR 320/14
1600	1600	SKN 320/16	SKR 320/16

Stud Diode

Rectifier Diode

SKN 320 SKR 320

Features

- Reverse voltages up to 1600 V
- Hermetic metal case with glass insulator
- Cooling via heatsinks
- Threaded stud ISO M24 x 1,5 or ³/₄ - 16 UNF 2A²)
- SKN: anode to stud
- SKR: cathode to stud

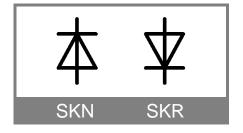
Typical Applications *

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

R_C: 1 μ F, 20 Ω (P_R = 2W), R_p: 25 k Ω (P_R = 20 W)

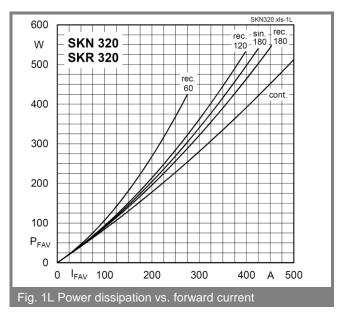
1) Mounting with grease-like thermal compound or joint contact compound 2) M24x1,5 is standard, "UNF" should be added in description for ¾ - 16 UNF thread. 3) To include silicone sleeve, "C/ ESPAG." Should be added in description.

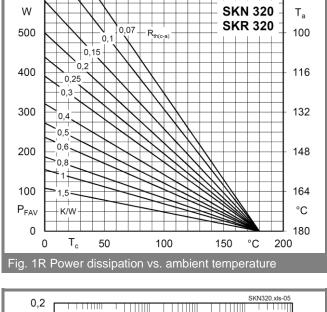
Symbol	Condition	Values	Units
Ifav Id	sin. 180 ; T _C = 85 (100) °C P 1/120; T _a = 50°C; B2 / B6 P 1/120F; T _a = 40°C; B2 / B6	454 (400) 263 / 384 557 / 798	A A A
I _{FSM}	$\begin{split} T_{vj} &= 25^{\circ} \text{ C} \; ; \; 10 \text{ ms} \\ T_{vj} &= 180^{\circ} \text{ C} \; ; \; 10 \text{ ms} \\ T_{vj} &= 25^{\circ} \text{ C} \; ; \; 8,310 \text{ ms} \\ T_{vj} &= 180^{\circ} \text{ C} \; ; \; 8,310 \text{ ms} \end{split}$	9000 8000 405000 320000	A A A ² s A ² s
VF V _(TO) rt I _{RD} Q _{rr}	$\begin{split} T_{vj} &= 25^{\circ} C, I_F = 1000 A \\ T_{vj} &= 180^{\circ} C \\ T_{vj} &= 180^{\circ} C \\ T_{vj} &= 180^{\circ} C ; V_{RD} = V_{RRM} \\ T_{vj} &= 160^{\circ} C, -di_F/dt = 10 A/\mu s \end{split}$	max. 1,35 max. 0,8 max. 0,45 max. 100 300	V V mΩ mA μC
$\begin{array}{c} R_{th(j\text{-}c)} \\ R_{th(c\text{-}s)} \\ T_{vj} \\ T_{stg} \end{array}$		0,16 0,015 -40+180 -40+180	K/W ℃ °C
V _{isol} Ms	M24 Stud 3/4-16 UNF Stud M24 Stud (lubricated) ¹⁾ 3/4-16 UNF Stud (lubricated) ¹⁾ approx.	- 60 30 45 22,5 5 * 9,81 500	V~ Nm Nm Nm Nm m/s²
Case		E 16	



RP

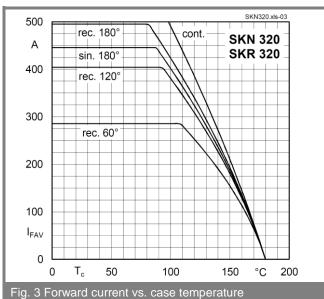
SKN 320, SKR 320

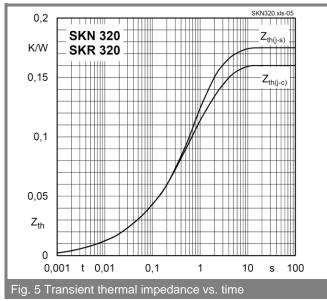


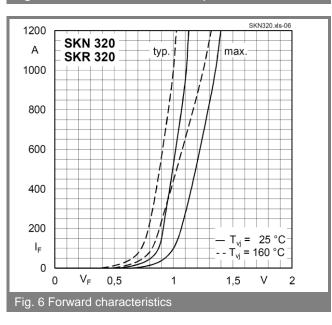


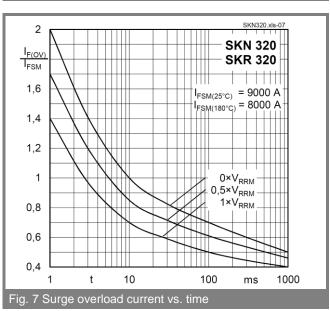
84

600

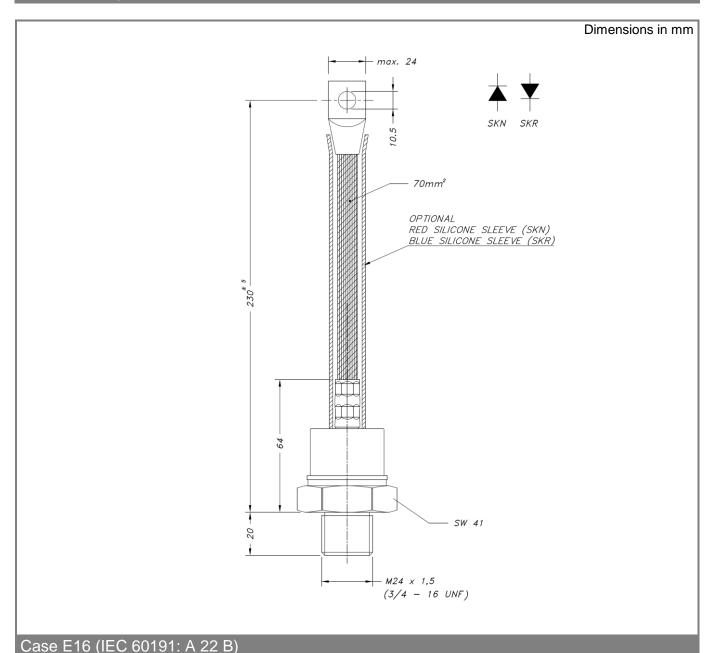








RP



*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.

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:

70HFR40 RL252-TP 1N5397 NTE5841 NTE6038 SCF5000 1N4002G 1N4005-TR JANS1N6640US 481235F RRE02VS6SGTR 067907F MS306 70HF40 US2JFL-TP A1N5404G-G CRS04(T5L,TEMQ) ACGRA4007-HF ACGRB207-HF CLH03(TE16L,Q) ACGRC307-HF ACEFC304-HF NTE6356 NTE6359 NTE6002 NTE6023 NTE6039 NTE6077 85HFR60 40HFR60 1N1186RA 70HF120 85HFR80 D126A45C SCF7500 D251N08B SCHJ22.5K SM100 SCPA2 SDHD5K VS-12FL100S10 ACGRA4001-HF D1821SH45T PR D1251S45T NTE5990 NTE6358 NTE6162 NTE5850 SKN20/08 SKN300/16