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

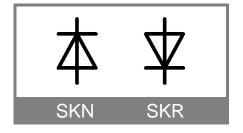
Typical Applications *

- 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)

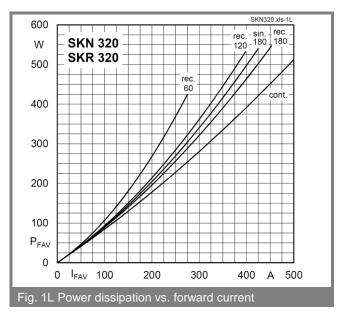
1) Mounting with grease-like thermal compound or joint contact compound 2) M24x1,5 is standard, "UNF" should be added in description for ¾ - 16 UNF thread. 3) To include silicone sleeve, "C/ ESPAG." Should be added in description.

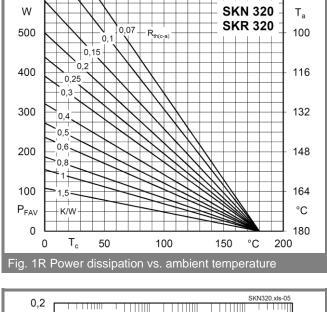
Symbol	Condition	Values	Units
Ifav Id	sin. 180 ; T _C = 85 (100) °C P 1/120; T _a = 50°C; B2 / B6 P 1/120F; T _a = 40°C; B2 / B6	454 (400) 263 / 384 557 / 798	A A A
I _{FSM}	$\begin{split} T_{vj} &= 25^{\circ} \text{ C} \; ; \; 10 \text{ ms} \\ T_{vj} &= 180^{\circ} \text{ C} \; ; \; 10 \text{ ms} \\ T_{vj} &= 25^{\circ} \text{ C} \; ; \; 8,310 \text{ ms} \\ T_{vj} &= 180^{\circ} \text{ C} \; ; \; 8,310 \text{ ms} \end{split}$	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	



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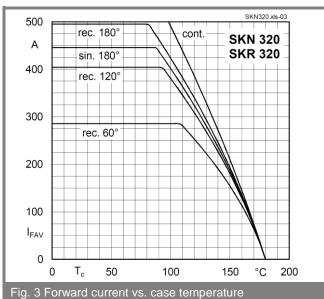
SKN 320, SKR 320

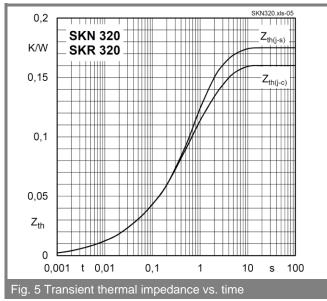


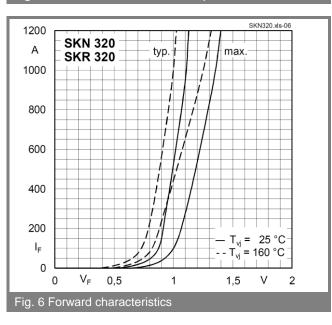


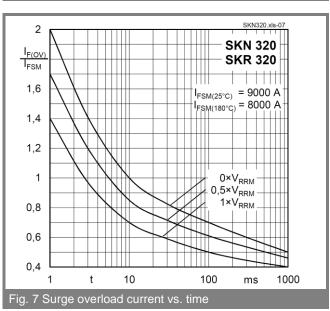
84

600

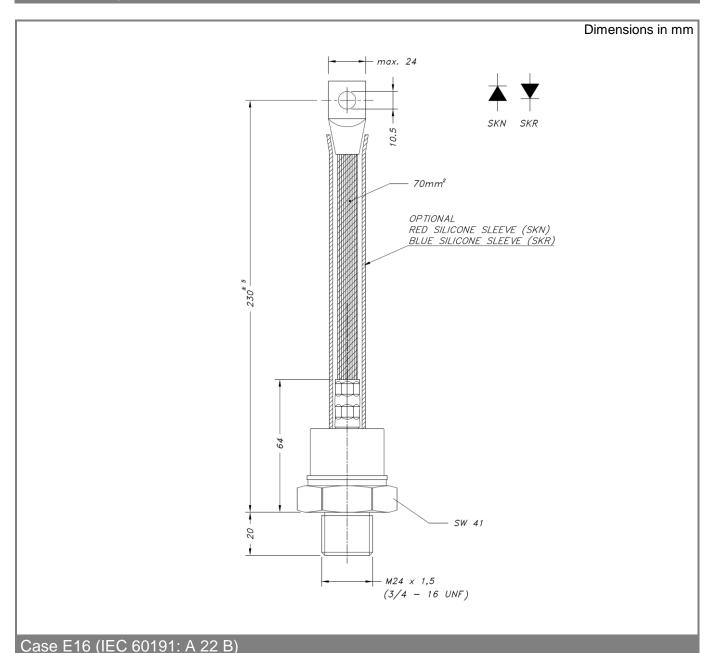








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