SKN 320, SKR 320



V _{RSM}	V _{RRM}	I_{FRMS} = 700 A (maximum value for continuous operation)	
V	V	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

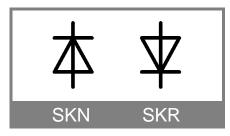
- Reverse voltages up to 1600 V
- Hermetic metal case with glass
 insulator
- Cooling via heatsinks
- Threaded stud ISO M24 x 1,5 or ³/₄ - 16 UNF 2A²)
- **SKN:** anode to stud
- SKR: cathode to stud

Typical Applications *

- All purpose high power rectifier diodes
- Non-controllable and halfcontrollable rectifiers
- Free-wheeling diodes
- Recommended snubber network: Rc: 1 μF, 20 Ω (P_R = 2W),

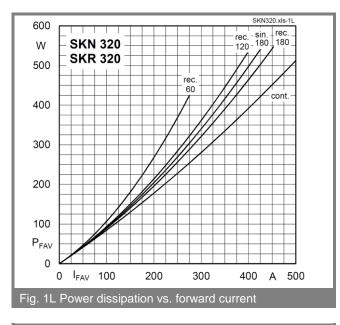
 $R_p: 25 \text{ k}\Omega \text{ (P}_R = 20 \text{ W)}$

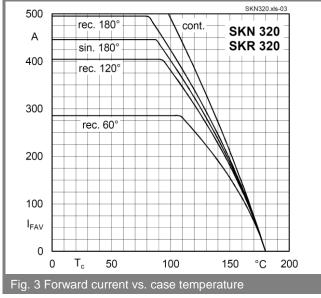
 Mounting with grease-like thermal compound or joint contact compound
 M24x1,5 is standard, "UNF" should be added in description for ¾ - 16 UNF thread.
 To include silicone sleeve, "C/ ESPAG." Should be added in description.

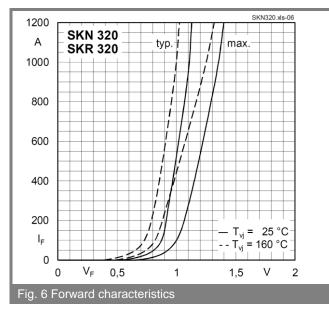


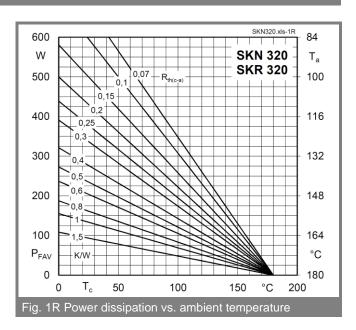
Symbol	Condition	Values	Units
Ifav Id	sin. 180 ; $T_c = 85 (100) \ ^{\circ}C$ P 1/120; $T_a = 50 \ ^{\circ}C$; B2 / B6 P 1/120F; $T_a = 40 \ ^{\circ}C$; B2 / B6	454 (400) 263 / 384 557 / 798	A A A
lғsм i²t	$\begin{array}{l} T_{vj} = 25^{o} \ C \ ; \ 10 \ ms \\ T_{vj} = 180^{o} \ C \ ; \ 10 \ ms \\ T_{vj} = 25^{o} \ C \ ; \ 8,310 \ ms \\ T_{vj} = 180^{o} \ C \ ; \ 8,310 \ ms \end{array}$	9000 8000 405000 320000	A A A ² s A ² s
Vf V _(TO) ľt Ird Qrr	$\begin{array}{l} T_{vj} = 25^{o} \ C, \ I_{F} = 1000 \ A \\ T_{vj} = 180^{o} \ C \\ T_{vj} = 180^{o} \ C \\ T_{vj} = 180^{o} \ C \ ; \ V_{RD} = V_{RRM} \\ T_{vj} = 160^{o} C, \ -di_{F}/dt = 10 \ A/\mu s \end{array}$	max. 1,35 max. 0,8 max. 0,45 max. 100 300	V V mΩ mA μC
Rth(j-c) Rth(c-s) T _{vj} Tstg		0,16 0,015 -40+180 -40+180	K/W K/W °C °C
V _{isol} Ms a m	M24 Stud ¾-16 UNF Stud M24 Stud (lubricated) ¹⁾ ¾-16 UNF Stud (lubricated) ¹⁾ approx.	- 60 30 45 22,5 5 * 9,81 500	V~ Nm Nm Nm m/s ² g
Case		E 16	

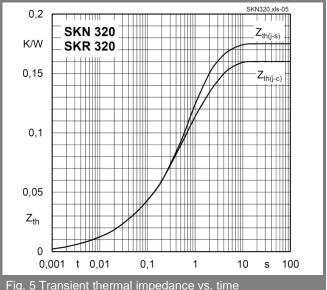
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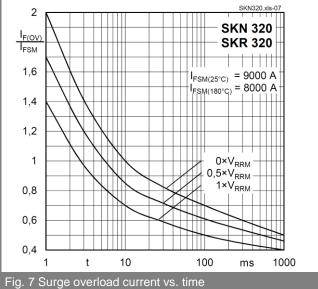




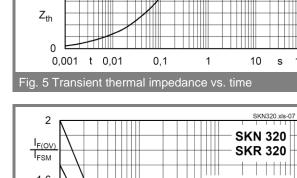






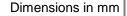


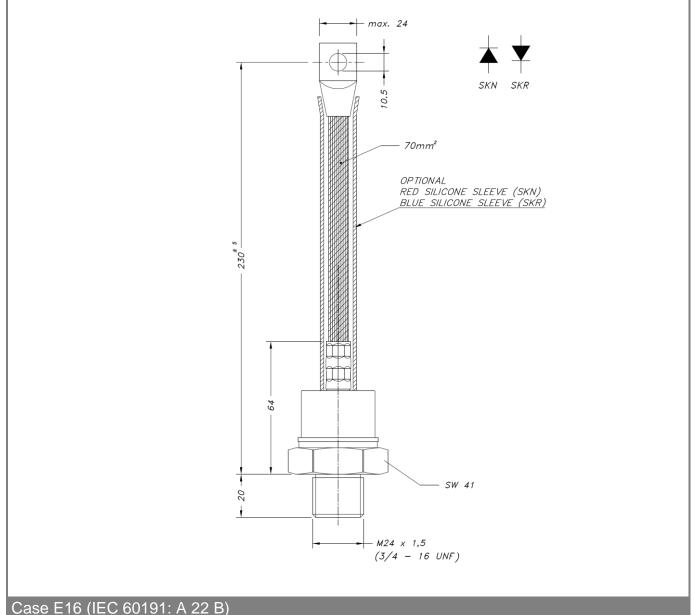
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SKN 320, SKR 320





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