SKN 320, SKR 320



Stud	Diode	

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	

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 1,5mm (M20 x 1,5mm and 3/4 -16UNF 2A available)2)
- **SKN:** anode to stud SKR: cathode to stud

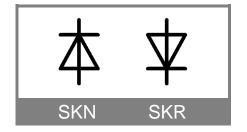
Typical Applications *

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

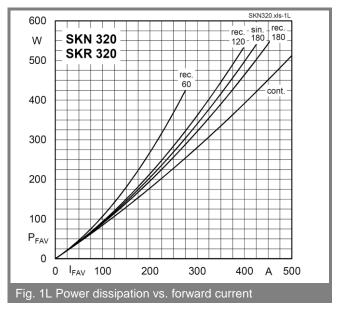
Rc: 1 μ F, 20 Ω (P_R = 2W), R_p : 25 k Ω ($P_R = 20 \text{ W}$)

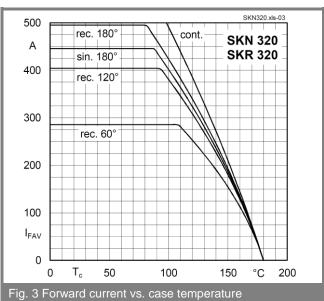
1) Mounting with grease-like thermal compound or joint contact compound 2) M24x1,5 is standard, "M20" or "UNF" should be added in description for M20x1,5 mm or ¾ - 16 UNF threads respectively.
3) To include silicone sleeve, "C/ ESPAG." Should be added in description.

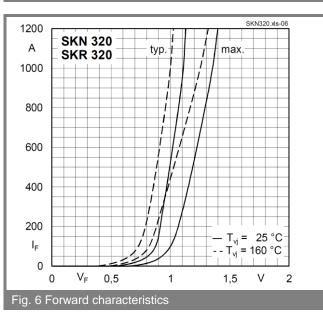
Symbol	Condition	Values	Units
I _{FAV}	sin. 180 ; T _C = 85 (100) °C P 1/120; T _a = 50°C; B2 / B6 P 1/120F; T _a = 40°C; B2 / B6	454 (400) 263 / 384 557 / 798	A A A
I _{FSM} i ² t	$\begin{split} T_{vj} &= 25^{\circ} \text{ C} \; ; \; 10 \text{ ms} \\ T_{vj} &= 180^{\circ} \text{ C} \; ; \; 10 \text{ ms} \\ T_{vj} &= 25^{\circ} \text{ C} \; ; \; 8,310 \text{ ms} \\ T_{vj} &= 180^{\circ} \text{ C} \; ; \; 8,310 \text{ ms} \end{split}$	9000 8000 405000 320000	$egin{array}{c} A & & & & & \\ A & & & & & & \\ A^2s & & & & & & \\ A^2s & & & & & & \end{array}$
$V_F \\ V_{(TO)} \\ r_T \\ I_{RD} \\ Q_{rr}$	$\begin{split} T_{vj} &= 25^{\circ} \text{ C, I}_{F} = 1000 \text{ A} \\ T_{vj} &= 180^{\circ} \text{ C} \\ T_{vj} &= 180^{\circ} \text{ C} \\ T_{vj} &= 180^{\circ} \text{ C} \\ T_{vj} &= 160^{\circ} \text{ C} \text{ ; V}_{RD} = \text{V}_{RRM} \\ T_{vj} &= 160^{\circ} \text{ C, -di}_{F}/\text{dt} = 10 \text{ A}/\mu\text{s} \end{split}$	max. 1,35 max. 0,8 max. 0,45 max. 100 300	>
$R_{th(j-c)} \atop R_{th(c-s)} \atop T_{vj} \atop T_{stg}$		0,16 0,015 -40+180 -40+180	K/W K/W °C °C
V _{isol} Ms a m	M24 Stud M20 Stud or ¾-16 UNF Stud M24 Stud (lubricated)¹) M20 Stud or ¾-16 UNF Stud (lubricated)¹) approx.	- 60 35 48 28 5 * 9,81 500	V~ Nm Nm Nm Nm nm m/s²
Case		E 16	

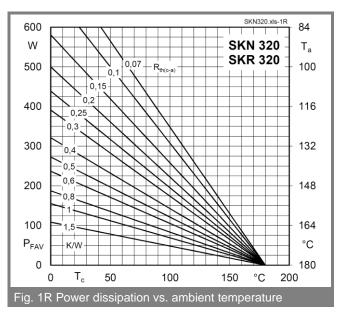


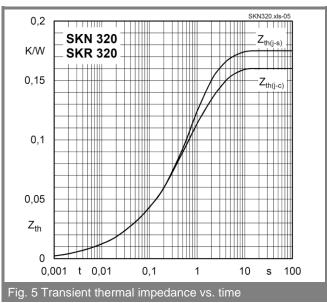
SKN 320, SKR 320

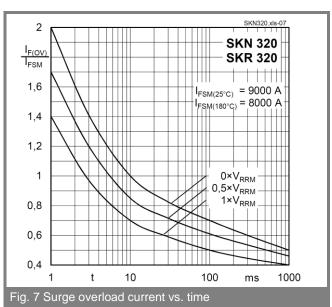


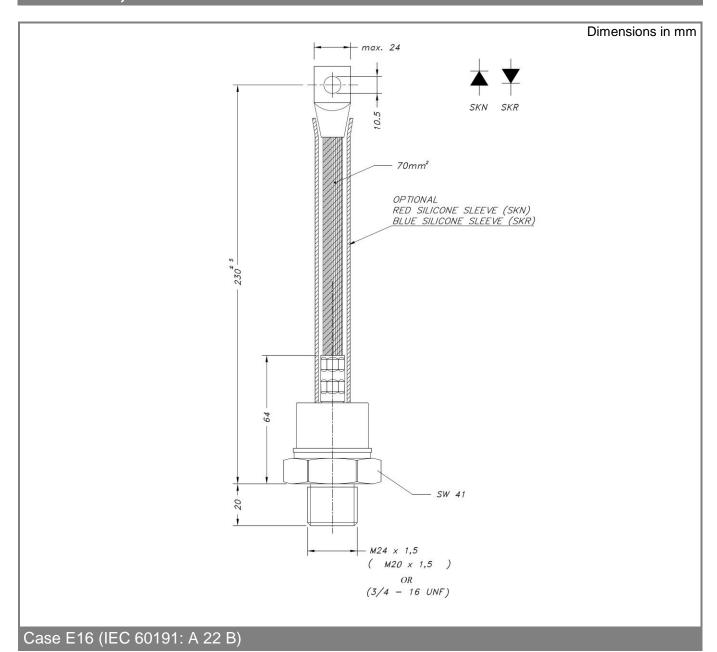












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