SKN 94, SKR 94



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Rectifier Diode

SKN 94 SKR 94

Features

- Low power dissipation
- Reverse voltages up to 1200 V
- Hermetic metal cases with glass insulator
- · Optional silicone sleeve
- Threaded studs ISO M8 or 1/4" 28 UNF-2A²⁾
- SKN: anode to studSKR: cathode to stud

Typical Applications

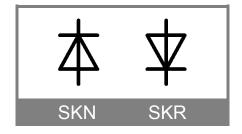
- All purpose mean power rectifier diodes
- Non-controllable and halfcontrollable rectifiers
- Free-wheeling diodes
- Recommended snubber network:

RC: 0,1 μ F, 100 Ω (P_R = 2W), R_p: 80 K Ω (P_R = 6 W)

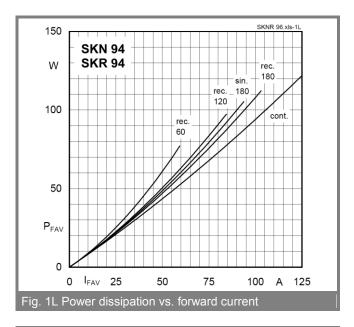
1) Mounting with grease-like thermal compound or joint contact compound 2) M8x1,25 is standard, "UNF" should be added in description for ½ - 28 2A thread

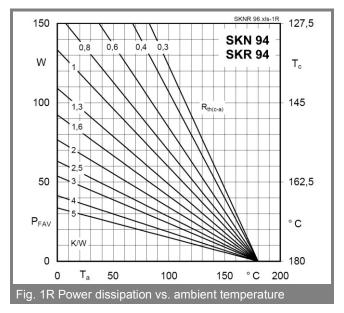
V _{RSM}	V _{RRM} V	I_{FRMS} = 150 A (maximum value for continuous operation) I_{FAV} = 95 A (sin. 180; T_c = 142 °C)	
200	200	SKN 94/02	SKR 94/02
400	400	SKN 94/04	SKR 94/04
800	600	SKN 94/08	SKR 94/08
1200	1200	SKN 94/12	SKR 94/12

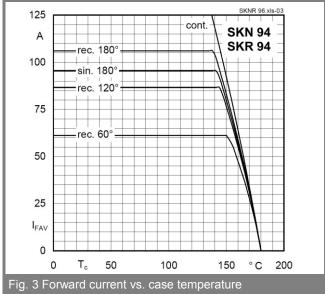
Symbol	Condition	Values	Units
IFAV	sin. 180 ; T _C = 142 °C ; T _C = 150 °C	95 80	A A
I _{FSM}	T_{vj} = 25° C; 10 ms T_{vj} = 180° C; 10 ms T_{vj} = 25° C; 8,310 ms T_{vj} = 180° C; 8,310 ms	2000 1700 20000 14450	A A A ² s A ² s
$V_F \\ V_{(TO)} \\ r_T \\ I_R \\ Q_{rr}$	$T_{vj} = 25^{\circ} \text{ C}, I_F = 300 \text{ A}$ $T_{vj} = 180^{\circ} \text{ C}$ $T_{vj} = 180^{\circ} \text{ C}$ $T_{vj} = 25^{\circ} \text{ C}; V_R = V_{RRM}$ $T_{vj} = 180^{\circ} \text{ C}; V_R = V_{RRM}$ $T_{vj} = 160^{\circ} \text{ C}, -di_F/dt = 10 \text{ A/}\mu\text{s}$	Max. 1,2 0,8 1,4 0,6 10 typ. 80	V V mΩ mA mA μC
R _{thjc} R _{thch} T _{vj} T _{stg}		0,35 0,2 -40+180 -55+180	° C/W ° C/W ° C
M a m	M8 Stud 1/4 - 28 UNF 2A Stud M8 Stud (lubricated) 1/4 - 28 UNF 2A Stud (lubricated) approx.	4 2,5 3 2 5 * 9,81 34	Nm Nm Nm Nm m/s ²
Case		E12a	

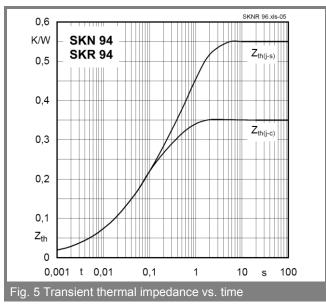


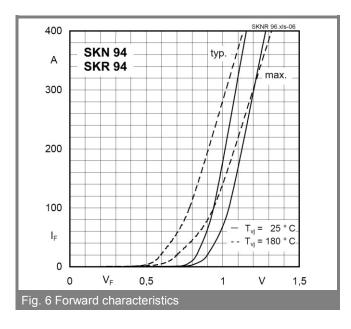
SKN 94, SKR 94

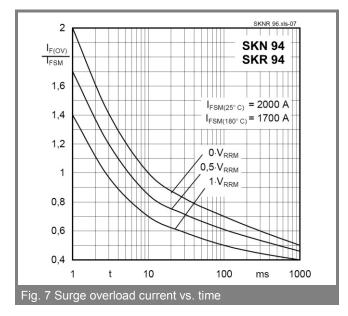


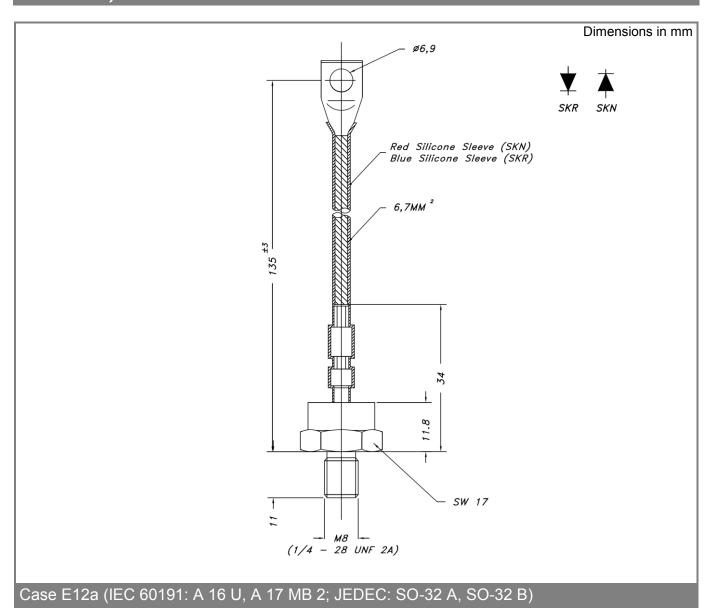












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