SKN 45, SKR 45



V _{RSM} V	V _{RRM} V	I_{FRMS} = 80 A (maximum value for continuous operation) I_{FAV} = 45 A (sin. 180; T_c = 125 °C)	
400	400	SKN 45/04	SKR 45/04
800	800	SKN 45/08	SKR 45/08
1200	1200	SKN 45/12	SKR 45/12
1400	1400	SKN 45/14	SKR 45/14
1600	1600	SKN 45/16	SKR 45/16

Stud Diode

Rectifier Diode

SKN 45 SKR 45

Features

- Reverse voltages up to 1600 V
- Hermetic metal case with glass insulator
- Cooling via heatsinks
- Threaded stud ISO M8 or ¹/₄ - 28 UNF 2A
- SKN: anode to stud
- SKR: cathode to stud

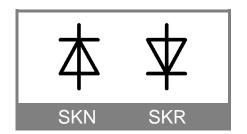
Typical Applications *

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

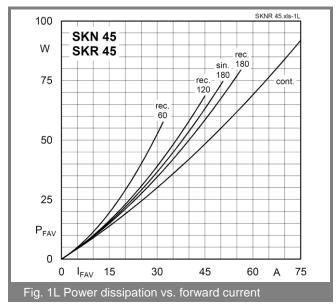
 R_C : 0,1 μ F, 100 Ω (P_R = 1W), R_p : 80 $k\Omega$ (P_R = 6 W)

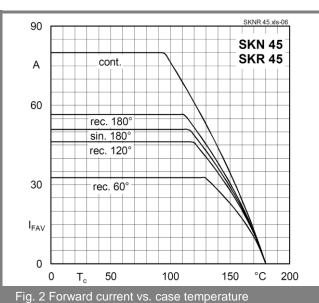
1) Mounting with grease-like thermal compound or joint contact compound

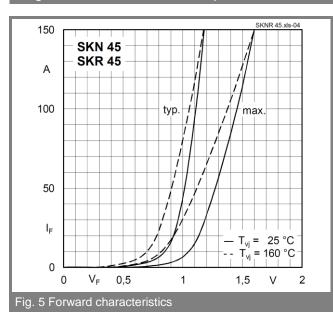
Symbol	Condition	Values	Units
I _{FAV} I _D	sin. 180 ; T _C = 117 °C K 5; T _a = 45°C; B2 / B6 K 1,1; T _a = 45°C; B2 / B6	50 40 / 57 86 / 120	A A A
I _{FSM} i ² t	$\begin{split} T_{vj} &= 25^{o} \text{ C} \text{ ; } 10 \text{ ms} \\ T_{vi} &= 180^{o} \text{ C} \text{ ; } 10 \text{ ms} \\ T_{vi} &= 25^{o} \text{ C} \text{ ; } 8,310 \text{ ms} \\ T_{vi} &= 180^{o} \text{ C} \text{ ; } 8,310 \text{ ms} \end{split}$	700 600 2500 1800	A A^2 s A^2 s
$V_F \\ V_{(TO)} \\ r_T \\ I_{RD} \\ Q_{rr}$	$\begin{split} T_{vj} &= 25^{\circ} \text{ C}, \ I_F = 150 \text{ A} \\ T_{vj} &= 180^{\circ} \text{ C} \ ; \ V_{RD} = V_{RRM} \\ T_{vj} &= 160^{\circ} \text{C}, \ -\text{di}_F/\text{dt} = 10 \text{ A}/\mu\text{s} \end{split}$	max. 1,6 max. 0,85 max. 5 max. 10 70	V V mΩ mA μC
$ \begin{array}{c} R_{th(i\text{-}c)} \\ R_{th(c\text{-}s)} \\ T_{vi} \\ T_{stg} \end{array} $		0,85 0,25 -40+180 -55+180	K/W K/W °C °C
V _{isol} M _s	M8 Stud 1/4 - 28 UNF 2A M8 Stud (lubricated) 1/4 - 28 UNF 2A (lubricated) 1/4 - 28 UNF 2A (lubricated) 1/1 approx.	- 4 2,5 3 2 5 * 9,81 30	V~ Nm Nm Nm Nm m/s²
Case		E 12	

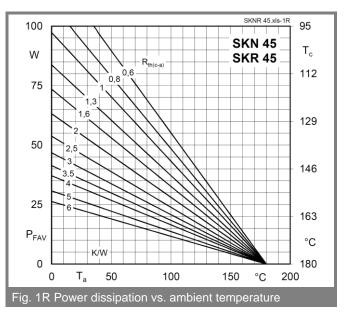


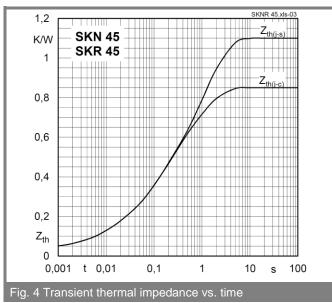
SKN 45, SKR 45

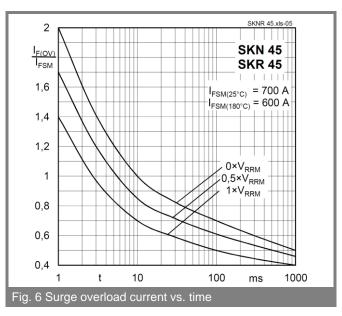












Dimensions in mm ø6,9 Yellow Sleeve 6,7MM SW 17 М8

Case E12 (IEC 60191: A 16 U; A 17 MB 2; JEDEC: SO-32B)

*IMPORTANT INFORMATION AND WARNINGS

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(1/4-28 UNF 2A)