SKN 46, SKR 46



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V _{RSM}	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 46/04	SKR 46/04	
800	800	SKN 46/08	SKR 46/08	
1200	1200	SKN 46/12	SKR 46/12	
1400	1400	SKN 46/14	SKR 46/14	
1600	1600	SKN 46/16	SKR 46/16	

Rectifier Diode

SKN 46 SKR 46

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 studSKR: cathode to stud

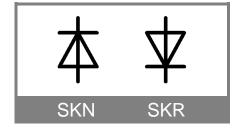
Typical Applications *

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

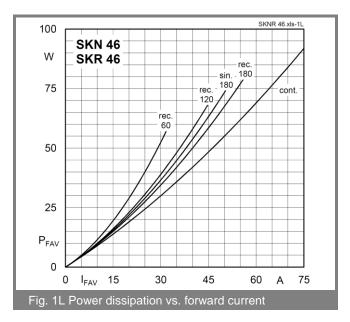
RC: $0.1 \mu F$, $100 \Omega (P_R = 1W)$, R_p : $80 k\Omega (P_R = 6 W)$

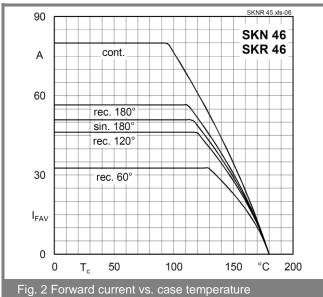
1) Mounting with grease-like thermal compound or joint contact compound

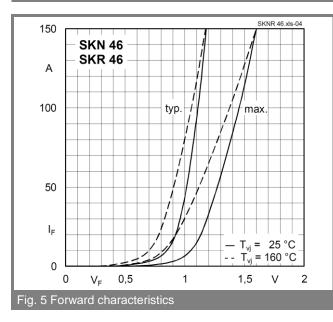
Symbol	Condition	Values	Units
I _{FAV} I _D	sin. 180 ; T _C = 118 °C K 5; T _a = 45°C; B2 / B6 K 1,1; T _a = 45°C; B2 / B6	50 40 / 57 86 / 120	A A A
i ² t	$\begin{split} T_{vj} &= 25^{o} \text{ C} \text{ ; } 10 \text{ ms} \\ T_{vi} &= 180^{o} \text{ C} \text{ ; } 10 \text{ ms} \\ T_{vi} &= 25^{o} \text{ C} \text{ ; } 8,310 \text{ ms} \\ T_{vi} &= 180^{o} \text{ C} \text{ ; } 8,310 \text{ ms} \end{split}$	700 600 2500 1800	A A^2 s A^2 s
$V_F \\ V_{(TO)} \\ r_T \\ I_{RD} \\ Q_{rr}$	$\begin{split} T_{vj} &= 25^{\circ} \text{ C, } I_F = 150 \text{ A} \\ T_{vj} &= 180^{\circ} \text{ C} \\ T_{vj} &= 180^{\circ} \text{ C} \\ T_{vi} &= 180^{\circ} \text{ C ; } V_{RD} = V_{RRM} \\ T_{vj} &= 160^{\circ} \text{C, } -di_F/dt = 10 \text{ A/}\mu\text{s} \end{split}$	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	KW KW °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 18	V~ Nm Nm Nm Nm m/s²
Case		E 11	

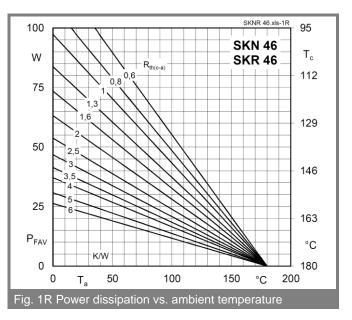


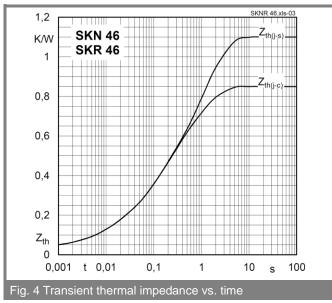
SKN 46, SKR 46

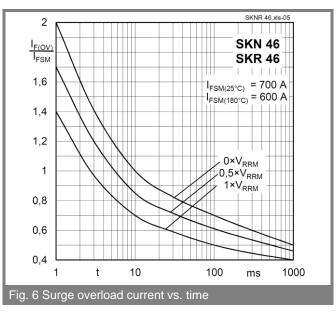


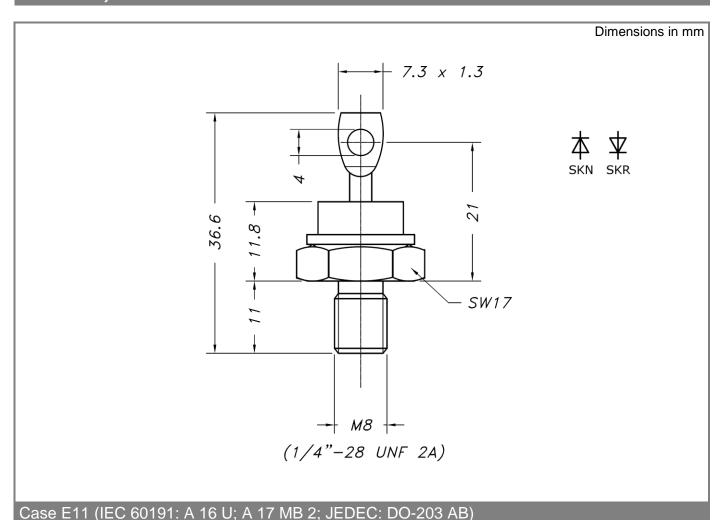












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