SKN 46 ST, SKR 46 ST



V _{RSM} V	V _{RRM}	I_{FRMS} = 100 A (maximum value for continuous operation) I_{FAV} = 45 A (sin. 180; T_c = 125 $^{\circ}$ C)	
800	800	SKN 46/08 ST	SKR 46/08 ST
1200	1200	SKN 46/12 ST	SKR 46/12 ST
1600	1600	SKN 46/16 ST	SKR 46/16 ST

Stud Diode

Rectifier Diode

SKN 46 ST SKR 46 ST

Features

- Reverse voltages up to 1600 V
- Hermetic metal case with glass insulator
- Cooling via heatsinks
- Threaded stud ISO M8
- **SKN:** anode to stud
- SKR: cathode to stud

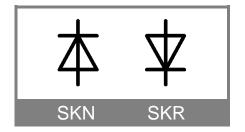
Typical Applications *

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

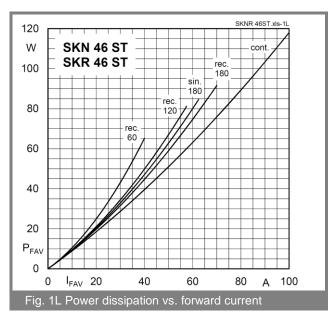
RC: 0,1 μ F, 100 Ω (P_R = 1W), R_p: 80 k Ω (P_R = 6 W)

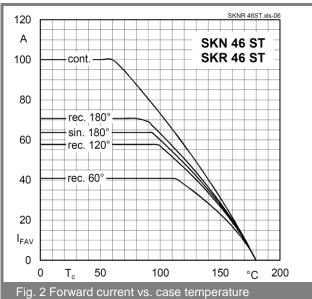
1) Mounting with grease-like thermal compound or joint contact compound

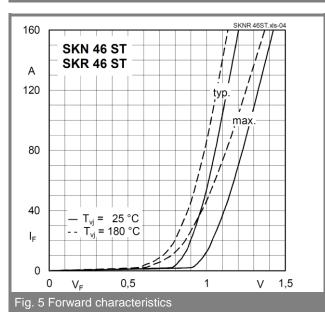
Symbol	Condition	Values	Units
I _{FAV}	sin. 180 ; T _C = 100 °C K 5; T _a = 45°C; B2 / B6 K 1,1; T _a = 45°C; B2 / B6	60 42 / 61 95 / 135	A A A
I _{FSM}	$\begin{split} T_{vj} &= 25^{o} \text{ C} \; ; \; 10 \text{ ms} \\ T_{vj} &= 180^{o} \text{ C} \; ; \; 10 \text{ ms} \\ T_{vj} &= 25^{o} \text{ C} \; ; \; 8,310 \text{ ms} \\ T_{vj} &= 180^{o} \text{ C} \; ; \; 8,310 \text{ ms} \end{split}$	1000 850 5000 3600	A A A ² s A ² s
VF V(TO) IT IRD	$\begin{split} T_{vj} &= 25^{o} \; C, \; I_{F} = 150 \; A \\ T_{vj} &= 180^{o} \; C \\ T_{vj} &= 180^{o} \; C \\ T_{vj} &= 25^{o} \; C \; ; \; V_{RD} = V_{RRM} \\ T_{vj} &= 180^{o} \; C \; ; \; V_{RD} = V_{RRM} \\ T_{vj} &= 160^{o} \; C, \; -\text{dir/dt} = 10 \; A/\mu s \end{split}$	max. 1,4 max. 0,86 max. 3,2 max. 0,6 max. 10 typ. 70	V V mΩ mA mA μC
R _{th(j-c)} R _{th(c-s)} T _{vj} T _{stg}		1,0 0,25 -40+180 -40+180	K/W K/W °C °C
V _{isol} M _s a m	M8 Stud M8 Stud (Lubricated) ¹⁾ approx.	- 4 3 5 * 9,81 16	V~ Nm Nm m/s² g
Case		E 11 mod.	

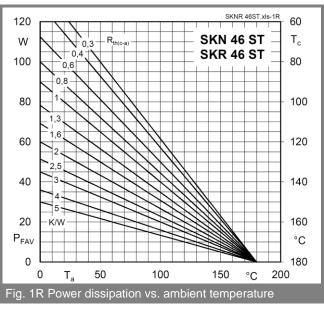


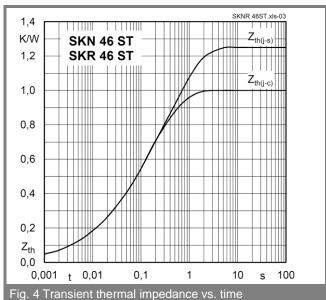
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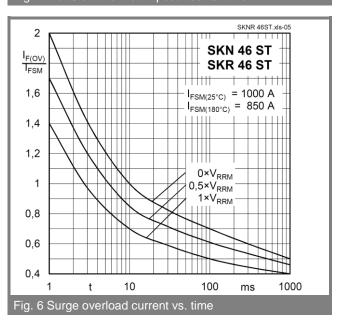




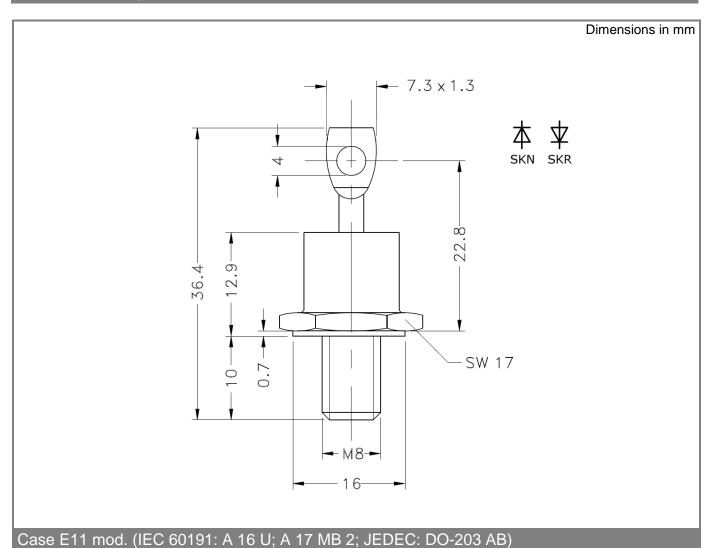








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