SKN 7500



Caseless Disc Diode

Rectifier Diodes

SKN 7500

Features

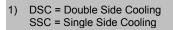
- High current diode in a slim
 package without external case
- Metal pressure contacts for double or single side cooling
- Reverse voltage of 600 V
- Low power dissipation and low thermal resistance
- Available in matched groups for paralleling

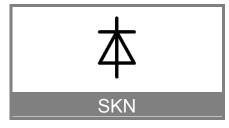
Typical Applications

- Welding
- High current rectifiers
- Electroplating

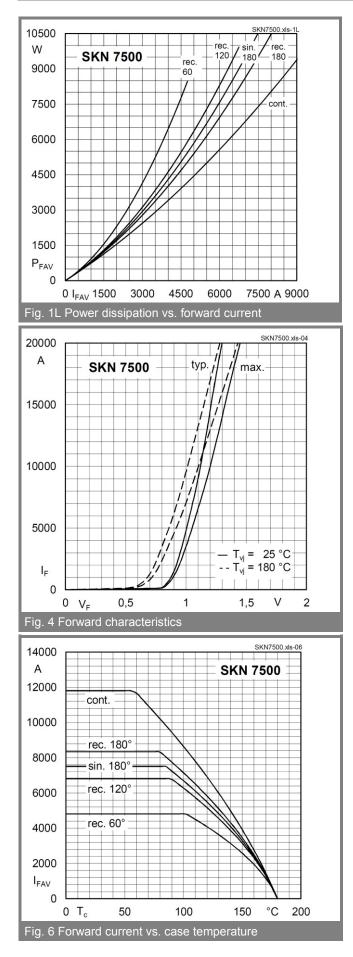
V _{RSM}	V _{RRM}	I_{FRMS} = 11800 A (maximum value for cont. operation)	
V	V	I_{FAV} = 7500 A (sin. 180; T _c = 85°C)	
600	600	SKN 7500/06	

Symbol	Condition	Values	Units
IFAV	sin. 180 ; T _c = 85 °C sin. 180 ; T _c = 100 °C	7500 6700	A A
Iғsм i²t	$\begin{array}{l} T_{vj} = 25^{\circ} \ C \ ; \ 10 \ ms \\ T_{vj} = 180^{\circ} \ C \ ; \ 10 \ ms \\ T_{vj} = 25^{\circ} \ C \ ; \ 8,310 \ ms \\ T_{vj} = 180^{\circ} \ C \ ; \ 8,310 \ ms \end{array}$	60 50 18000 12500	kA kA kA²s kA²s
Vf Vf(to) It Ird	$T_{vj} = 25^{\circ} C, I_F = 14 \text{ kA}$ $T_{vj} = 180^{\circ} C$ $T_{vj} = 180^{\circ} C$ $T_{vj} = 25^{\circ} C; V_R = V_{RRM}$ $T_{vj} = 180^{\circ} C; V_R = V_{RRM}$	max. 1,30 max. 0,70 max. 0,038 max. 4 max. 100	V V mΩ mA mA
Rth(j-c) Rth(c-s) Tvj Tstg	DSC ¹⁾ SSC anode / SSC cathode ¹⁾ DSC / SSC ¹⁾	9,0 12,4 / 33 5 / 10 -40+180 -40+180	K/kW K/kW K/kW °C °C
F	Mounting force (SI units) Mounting force (US units)	24 30 54006750	kN Ibs.
a m	approx.	5 * 9,81 78	m/s² g
Case	Disc Ø49,5 x 5,3 mm	E28	





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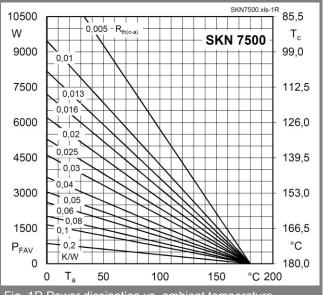
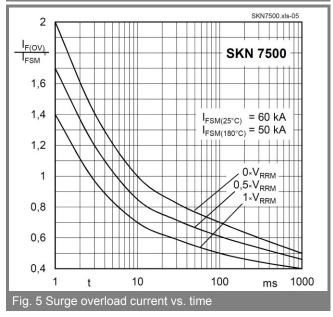
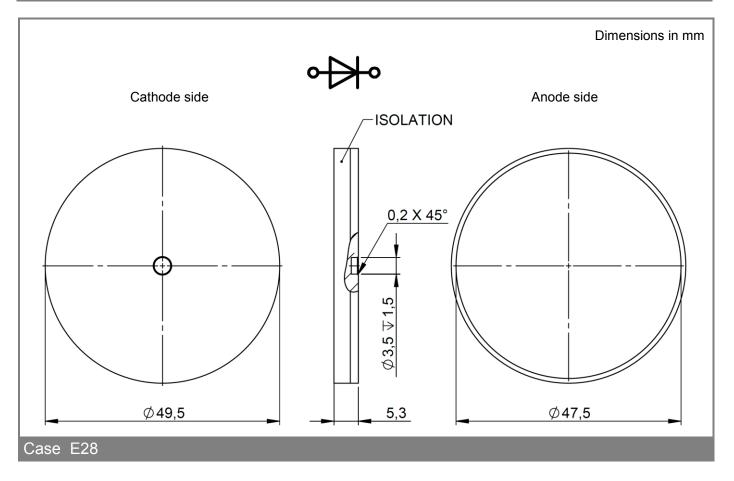


Fig. 1R Power dissipation vs. ambient temperature



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