SKN 7500



Caseless Disc Diode

Rectifie	er Die	ode
176011116	יוט וז	JUC

SKN 7500

Preliminary data

Features

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

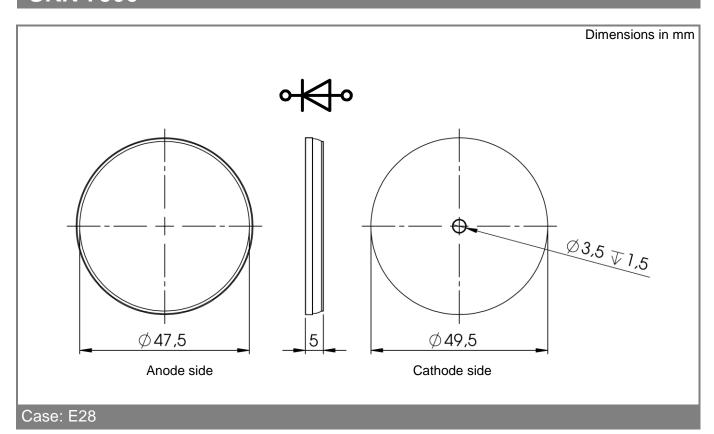
Typical Applications

- High current rectifiers
- Welding
- Electroplating
- 1) DSC = Double Side Cooling SSC = Single Side Cooling

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

Symbol	Condition	Values	Units
I _{FAV}	sin. 180 ; $T_C = 85 ^{\circ}\text{C}$ sin. 180 ; $T_C = 100 ^{\circ}\text{C}$	7500 6700	A A
IFSM i ² t	$\begin{split} T_{vj} &= 25^{o} \text{ C} \; ; \; 10 \text{ ms} \\ T_{vj} &= 180^{o} \text{ C} \; ; \; 10 \text{ ms} \\ T_{vj} &= 25^{o} \text{ C} \; ; \; 8,310 \text{ ms} \\ T_{vj} &= 180^{o} \text{ C} \; ; \; 8,310 \text{ ms} \end{split}$	60 50 18000 12500	kA kA kA ² s kA ² s
VF V(TO) r _T I _{RD}	$\begin{split} T_{vj} &= 25^{o} \; C, \; I_{F} = 8000 \; A \\ T_{vj} &= 180^{o} \; C \\ T_{vj} &= 180^{o} \; C \\ T_{vj} &= 25^{o} \; C \; ; \; \; V_{R} = V_{RRM} \\ T_{vj} &= 180^{o} \; C \; ; \; \; V_{R} = V_{RRM} \end{split}$	Max. 1,12 Max 0,7 Max 0,038 Max. 4 Max. 100	V V mΩ mA mA
R _{th(j-c)} R _{th(c-s)} T _{vj} T _{stg}	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
V _{isol} F a m	mounting force (SI units) mounting force (US units) approx.	- 24 30 54006750 5 * 9,81 78	V~ kN lbs. m/s² g
Case	Ø49,5 x 5 mm	E28	





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