

SKN 7500



Caseless Disc Diode

Rectifier Diode

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

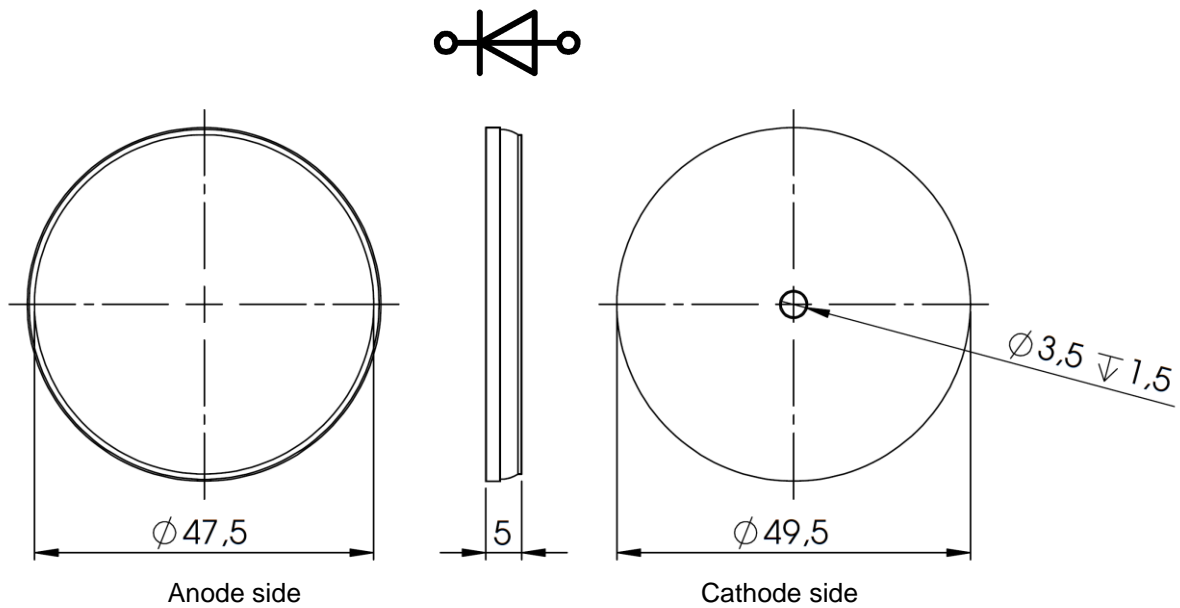
1) DSC = Double Side Cooling
SSC = Single Side Cooling

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 ; $T_C = 85$ °C	7500	A
	sin. 180 ; $T_C = 100$ °C	6700	A
I_{FSM}	$T_{vj} = 25$ °C ; 10 ms	60	kA
	$T_{vj} = 180$ °C ; 10 ms	50	kA
i^2t	$T_{vj} = 25$ °C ; 8,3...10 ms	18000	kA ² s
	$T_{vj} = 180$ °C ; 8,3...10 ms	12500	kA ² s
V_F	$T_{vj} = 25$ °C, $I_F = 8000$ A	Max. 1,12	V
$V_{(TO)}$	$T_{vj} = 180$ °C	Max 0,7	V
r_T	$T_{vj} = 180$ °C	Max 0,038	mΩ
I_{RD}	$T_{vj} = 25$ °C ; $V_R = V_{RRM}$	Max. 4	mA
	$T_{vj} = 180$ °C ; $V_R = V_{RRM}$	Max. 100	mA
$R_{th(j-c)}$	DSC ¹⁾	9,0	K/kW
	SSC anode / SSC cathode ¹⁾	12,4 / 33	K/kW
$R_{th(c-s)}$	DSC / SSC ¹⁾	5 / 10	K/kW
T_{vj}		-40...+180	°C
T_{stg}		-40...+180	°C
V_{isol}		-	V~
F	mounting force (SI units)	24 ... 30	kN
	mounting force (US units)	5400...6750	lbs.
a		5 * 9,81	m/s ²
m	approx.	78	g
Case	Ø49,5 x 5 mm	E28	



SKN



Case: E28

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