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Disc Diode

Rectifier Diode

SKN 6000

Features

- Capsule type metal-ceramic package with precious metal pressure contacts
- Medium voltage, high current rectifier diode with slim package for lowest thermal resistance
- Low power dissipation
- Especially suited for water cooling
- Forward selections for paralleling available

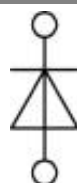
Typical Applications

- Welding
- Electroplating

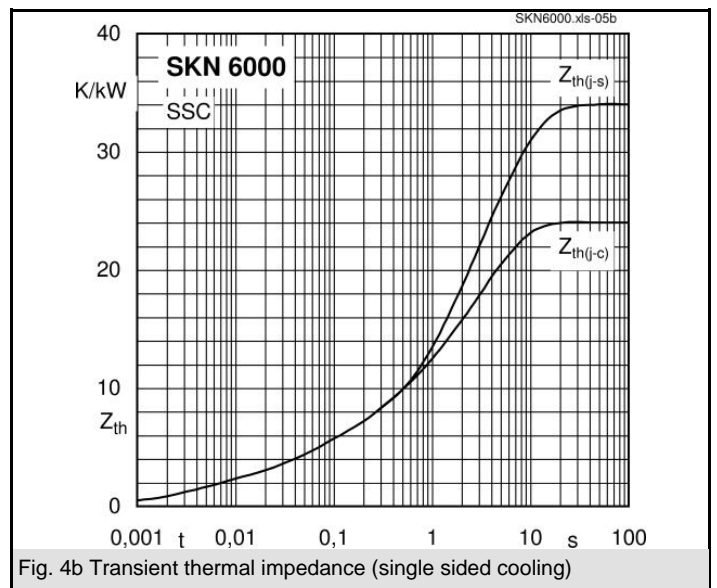
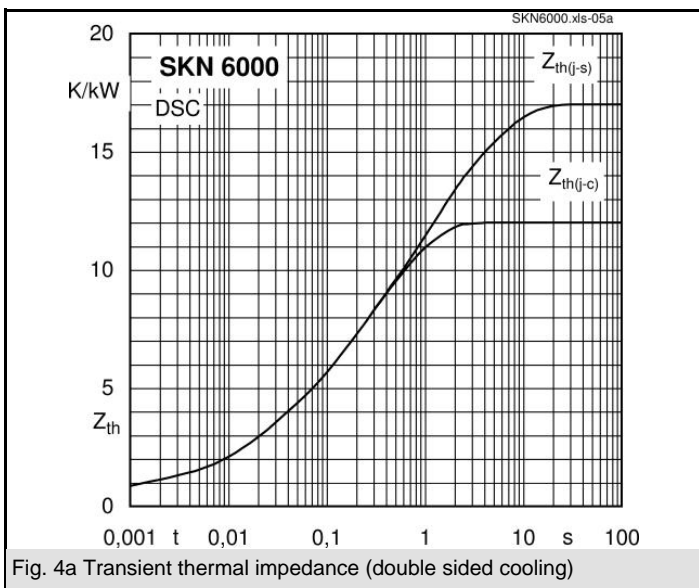
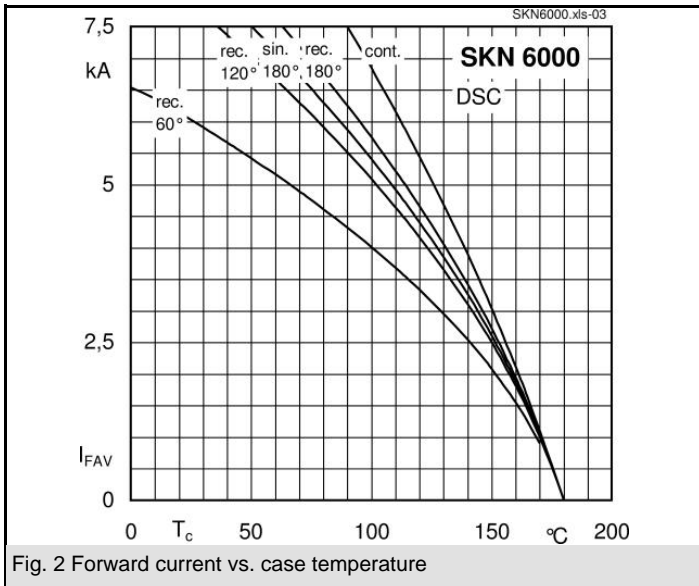
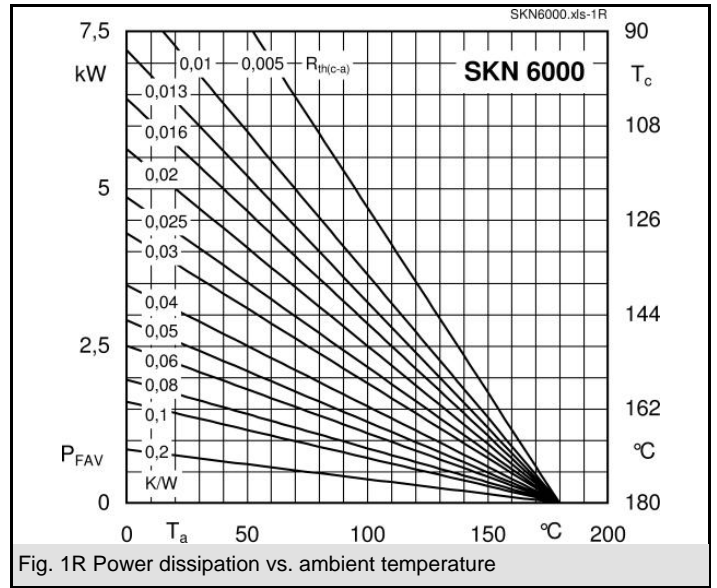
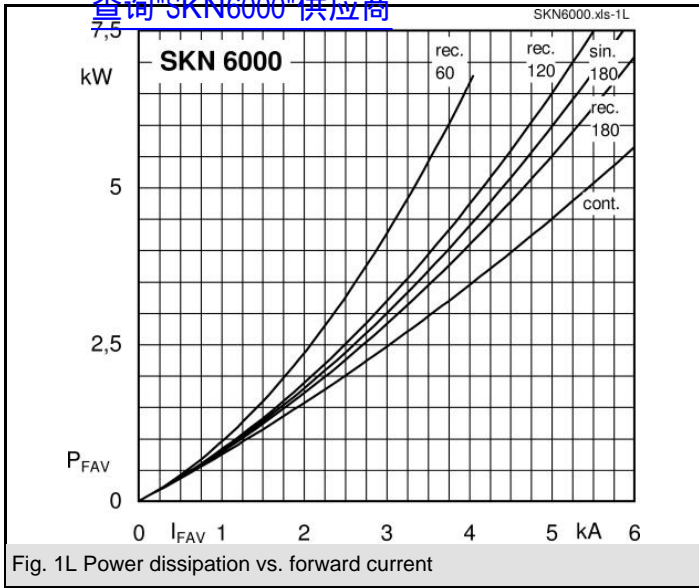
1) DSC - Double sided cooling
SSC - Single sided cooling

V_{RSM} V	V_{RRM} V	$I_{FRMS} = 10000$ A (maximum value for continuous operation) $I_{FAV} = 6000$ A (sin. 180; $T_c = 85$ °C)	
200	200	SKN 6000/02	
400	400	SKN 6000/04	
600	600	SKN 6000/06	

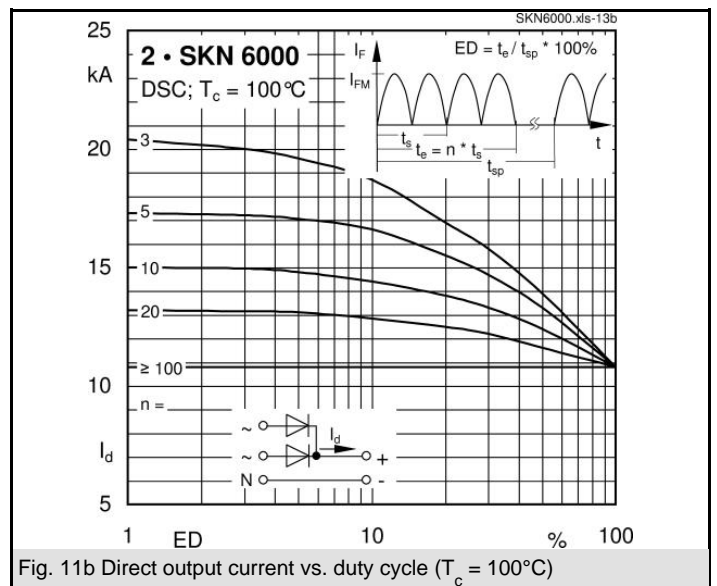
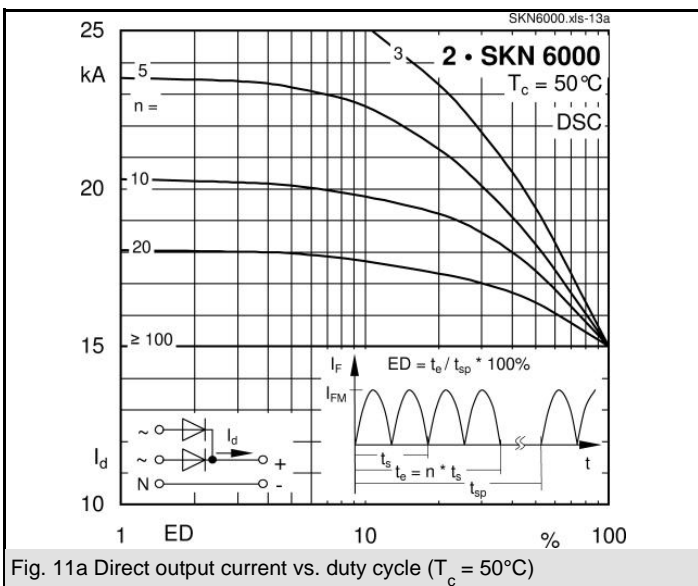
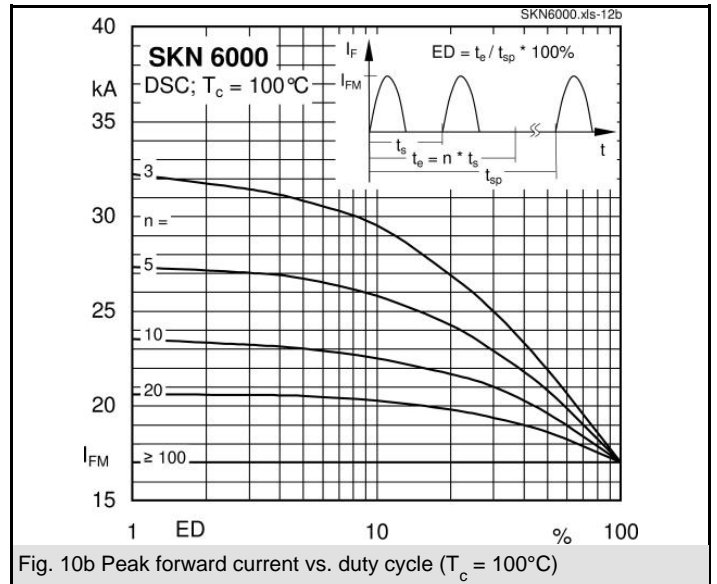
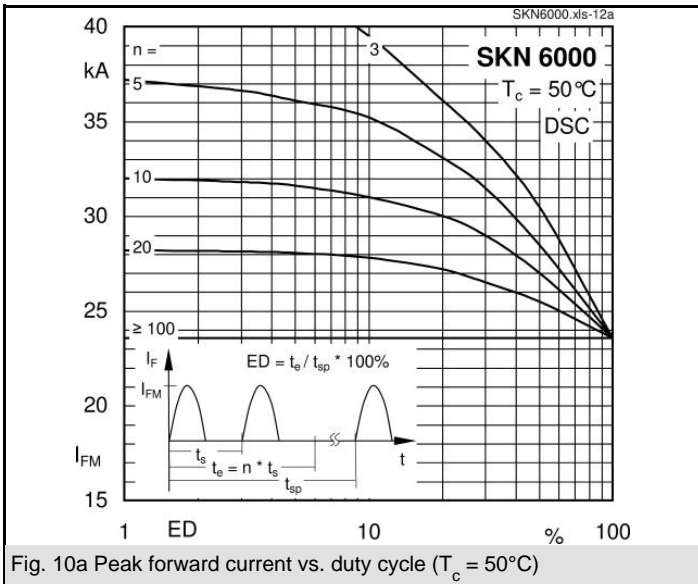
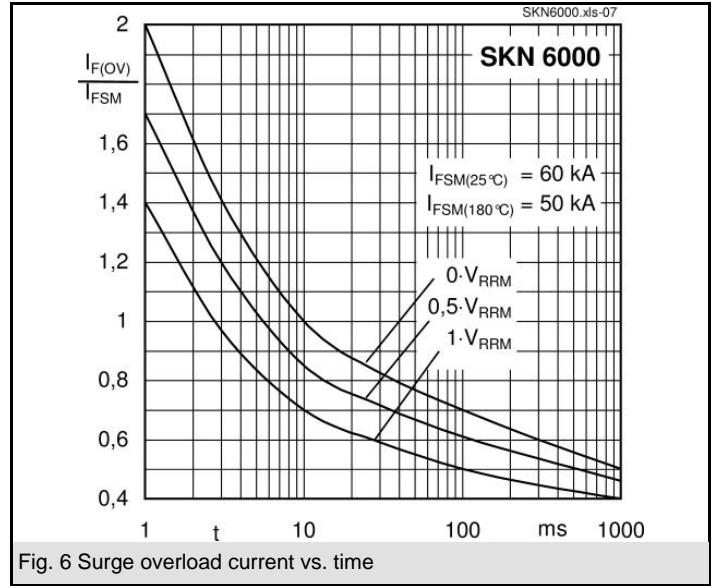
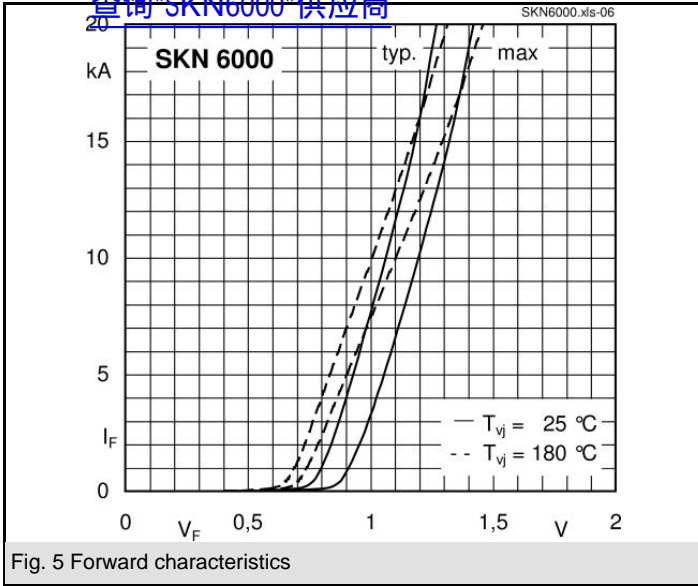
Symbol	Conditions	Values	Units
I_{FAV}	sin. 180; DSC ¹⁾ ; $T_c = 85$ (100) °C	6000 (5400)	A
I_{FSM}	$T_{vj} = 25$ °C; 10 ms $T_{vj} = 180$ °C; 10 ms	60000 50000	A A
i^2t	$T_{vj} = 25$ °C; 8,3 ... 10 ms $T_{vj} = 180$ °C; 8,3 ... 10 ms	18000000 12500000	A ² s A ² s
V_F	$T_{vj} = 25$ °C; $I_F = 14000$ A	max. 1,3	V
$V_{(TO)}$	$T_{vj} = 180$ °C	max. 0,7	V
r_T	$T_{vj} = 180$ °C	max. 0,04	mΩ
I_{RD}	$T_{vj} = 180$ °C; $V_{RD} = V_{RRM}$	max. 100	mA
$R_{th(j-c)}$	DSC / SSC ¹⁾	0,012 / 0,024	K/W
$R_{th(c-s)}$	DSC / SSC ¹⁾	0,005 / 0,01	K/W
T_{vj}		- 40 ... + 180	°C
T_{stg}		- 40 ... + 150	°C
V_{isol}		-	V~
F	mounting force	24 ... 30	kN
a			m/s ²
m	approx.	130	g
Case		E 35	

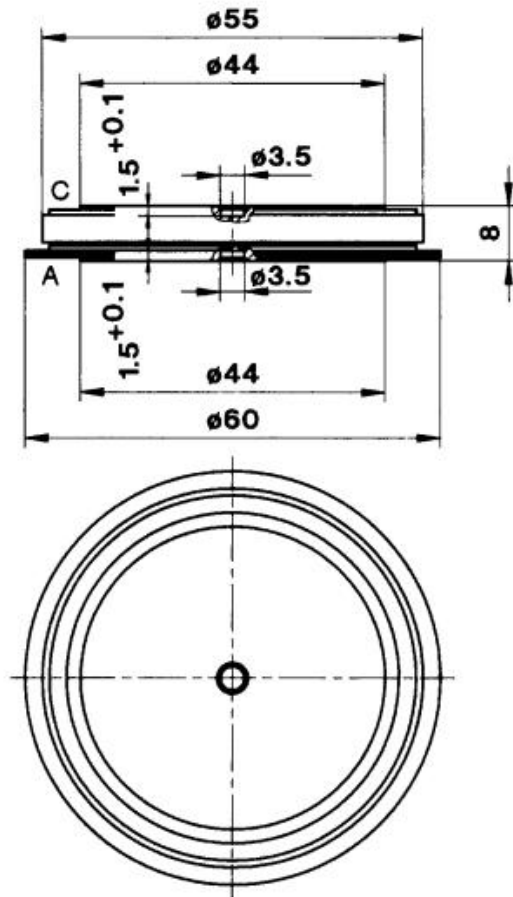


SKN



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Case E 35

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