SKN 4000



Disc Diode

Rectifier Diode

SKN 4000

Features

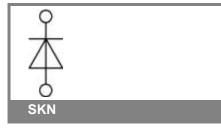
- Capsule type metal-ceramic package with precious metal pressure contacts
- Medium voltage, high current rectifier diode with slim package for lowest thermal resistance
- Low power dissipation
- Especially suited for water cooling
- Forward selections for paralleling available

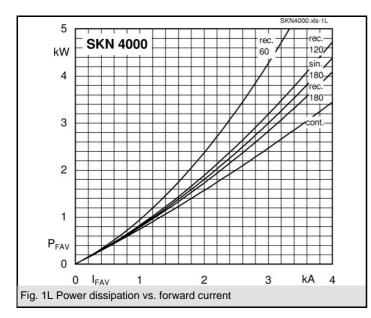
Typical Applications*

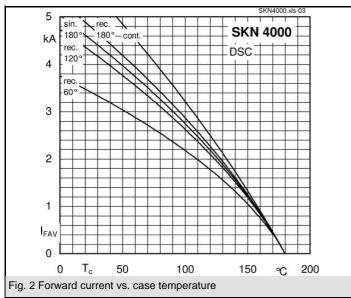
- Welding
- Electroplating
- DSC Double sided cooling SSC - Single sided cooling

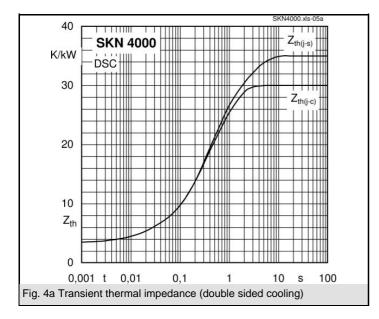
V _{RSM}	V _{RRM}	I _{FRMS} = 6300 A (maximum value for continuous operation)		
V	V	I _{FAV} = 4000 A (sin. 180; T _c = 50 °C)		
200	200	SKN 4000/02		
400	400	SKN 4000/04		
600	600	SKN 4000/06		

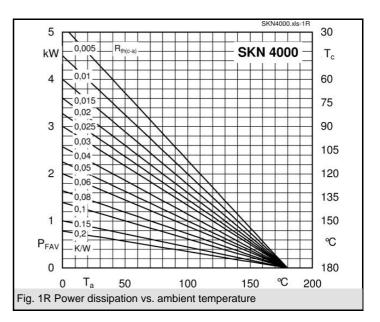
Symbol	Conditions	Values	Units
I _{FAV}	sin. 180; DSC ¹⁾ ; T _c = 85 (100) °C	3200 (2740)	А
I _{FSM}	T _{vi} = 25 °C; 10 ms	60000	А
	T _{vj} = 180 °C; 10 ms	50000	А
i²t	T _{vj} = 25 °C; 8,3 10 ms	18000000	A²s
	T _{vj} = 180 °C; 8,3 10 ms	12500000	A²s
V _F	T _{vi} = 25 °C; I _F = 14000 A	max. 1,3	V
V _(TO)	$T_{vi} = 180 \text{ °C}$	max. 0,7	V
r _T	$T_{vj} = 180 \text{ °C}$	max. 0,04	mΩ
I _{RD}	T _{vj} = 180 °C; V _{RD} = V _{RRM}	max. 100	mA
R _{th(j-c)}	DSC / SSC ¹⁾	0,03 / 0,06	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}		-	٧~
F	mounting force	24 30	kN
а			m/s²
m	approx.	129	g
Case		E 35	

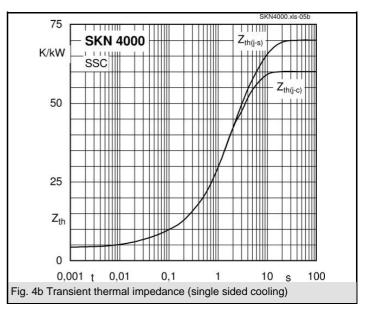








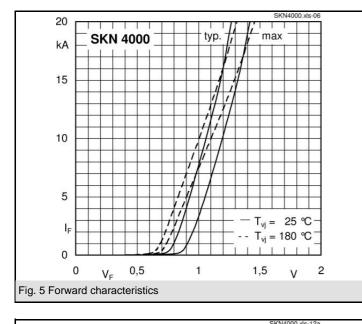


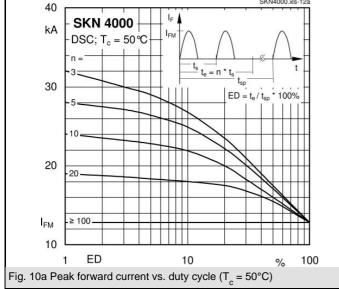


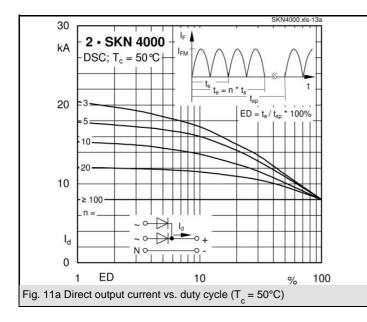
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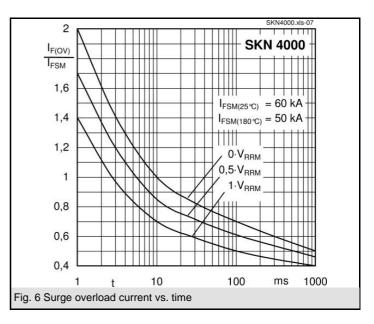
26-03-2004 SCT

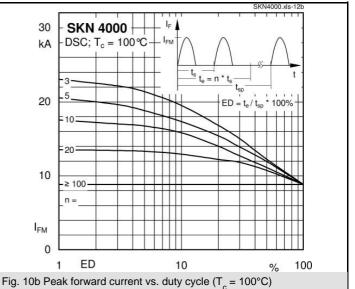
SKN 4000

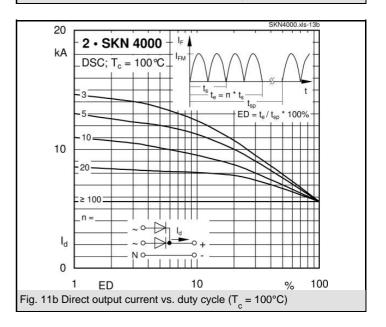


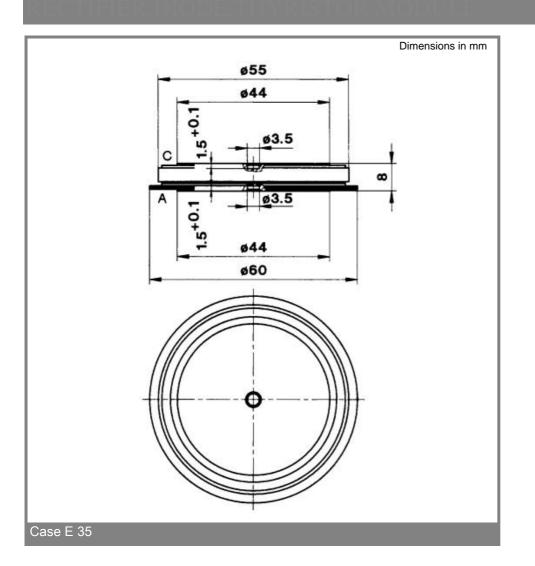












* The specifications of our components may not be considered as an assurance of component characteristics. Components have to be tested for the respective application. Adjustments may be necessary. The use of SEMIKRON products in life support appliances and systems is subject to prior specification and written approval by SEMIKRON. We therefore strongly recommend prior consultation of our personal.