SKNa 20

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Avalanche Diode

Stud Diode

SKNa 20

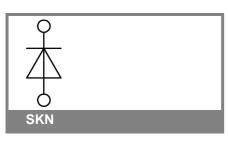
V _{(BR)min}	I _{FRMS} = 40 A (maximum value for continuous operation)	on)	R _{min}
V	I _{FAV} = 20 A (sin. 180; T _c = 93 °C)	μF	Ω
1300	SKNa 20/13		
1700	SKNa 20/17		
Symbol	Conditions	Values	Units
I _{FAV}	sin. 180; T _c = 85 (100) °C	22 (18)	А
I _D	K 9; T _a = 45 °C; B2 / B6	17 / 24	А
	K 3; T _a = 45 °C; B2 / B6	30 / 42	А
I _{FSM}	T _{vi} = 25 °C; 10 ms	375	A
-	T _{vj} = 150 °C; 10 ms	320	А
i²t	T _{vj} = 25 °C; 8,3 10 ms	700	A²s
	T _{vj} = 150 °C; 8,3 10 ms	510	A²s
V _F	T _{vi} = 25 °C; I _F = 60 A	max. 1,55	V
V _(TO)	T _{vj} = 150 °C	max. 0,85	V
r _T	T _{vj} = 150 °C	max. 11	mΩ
I _{RD}	$T_{vj} = 25 \text{ °C}; V_{RD} = V_{(BR)min}$	max. 10	μA
P _{RSM}	T _{vj} = 150 °C; t _p = 10 μs	6	kW
R _{th(j-c)}		2	K/W
R _{th(c-s)}		1	K/W
T _{vj}		- 40 + 150	°C
T _{stg}		- 55 + 180	°C
V _{isol}		-	V~
M _s		2	Nm
а		5 * 9,81	m/s²
m	approx.	11	g
Case		E 9	

Features

- Avalanche type reverse characteristic up to 1700
- Hermetic metal case with glass
 insulator
- Anode side threaded stud ISO M
- Cooling via metal plates or heat sinks
- SKN: Anode to stud

Typical Applications*

- DC supply for magnetes or solenoids (brakes, valves etc.)
- Field coil supply for DC motors
- Series connections for high voltage applications (dust precipitators)

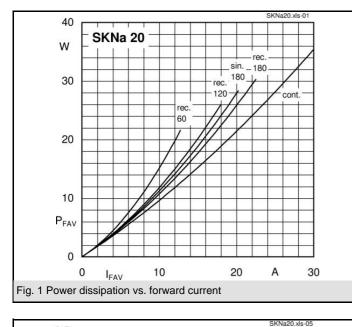


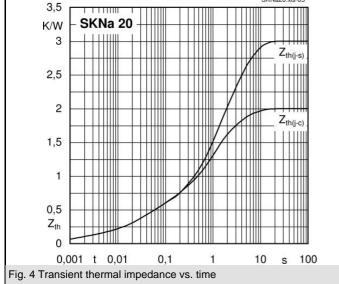
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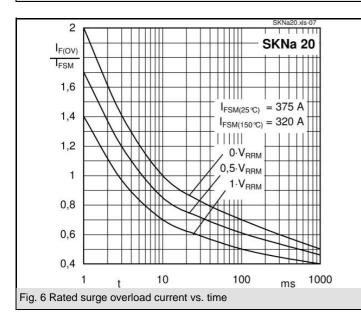
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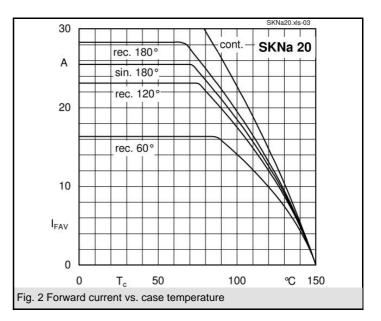
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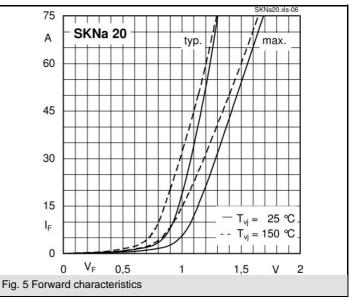
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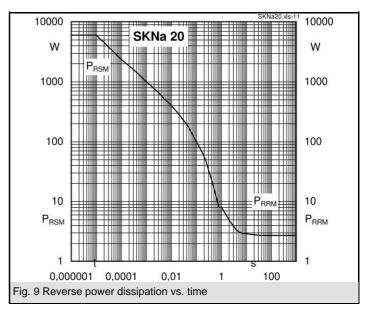










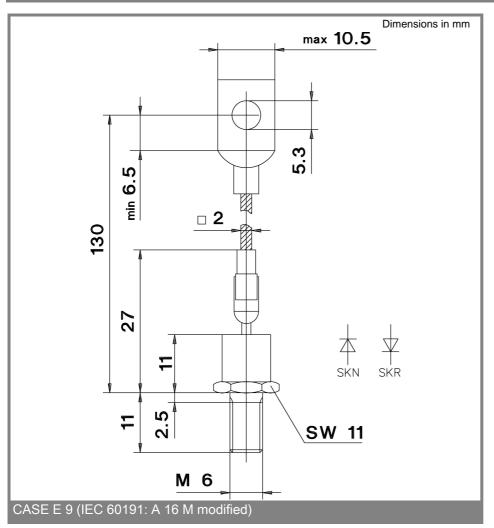


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* The specifications of our components may not be considered as an assurance of component characteristics. Components have to be tested for the respective application. Adjustments may be necessary. The use of SEMIKRON products in life support appliances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

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