

Stud Diode

Avalanche Diode

SKNa 20

Features

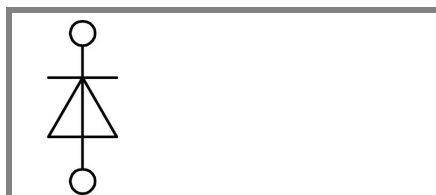
- Avalanche type reverse characteristic up to 1700
- Hermetic metal case with glass insulator
- Anode side threaded stud ISO M
- Cooling via metal plates or heat sinks
- SKN: Anode to stud

Typical Applications

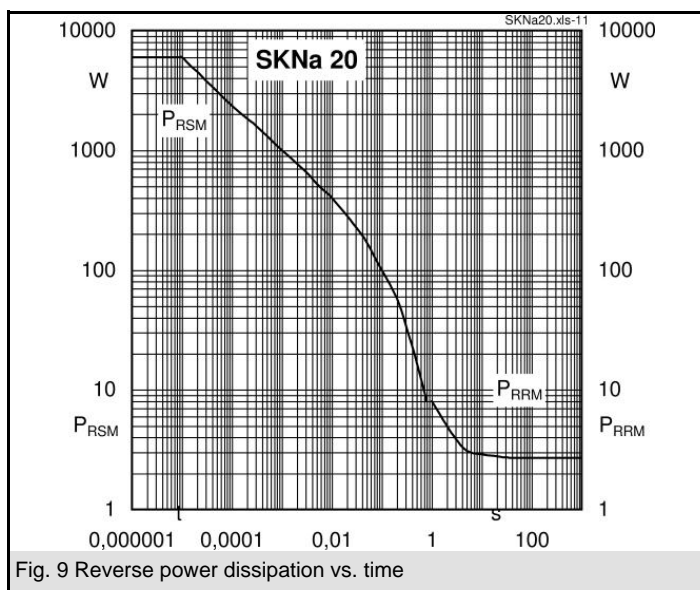
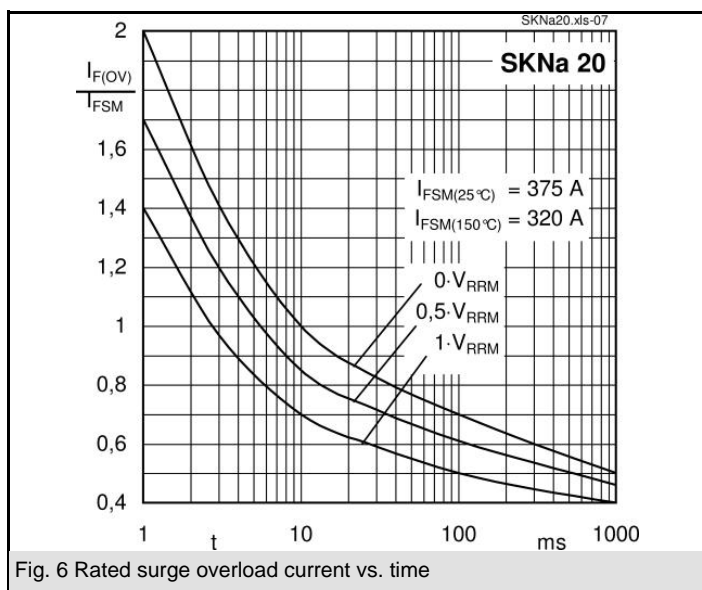
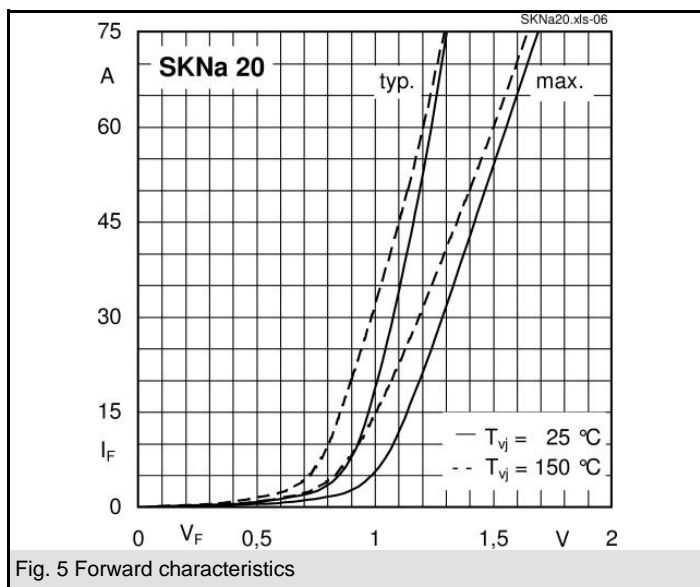
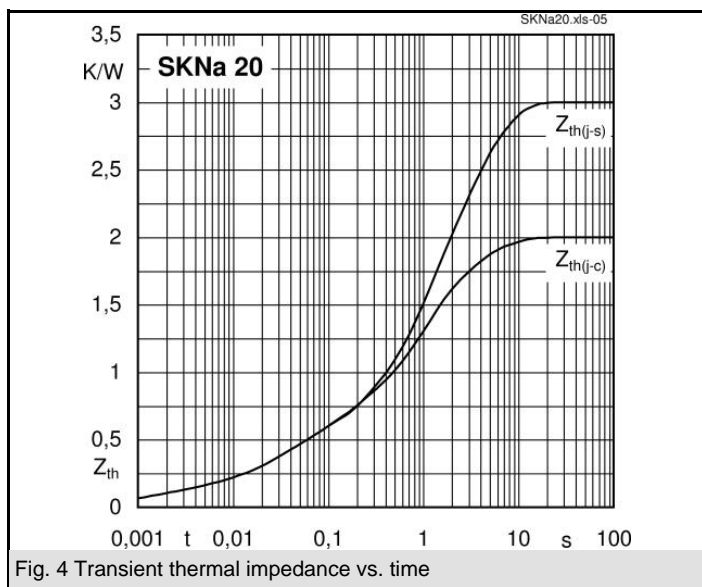
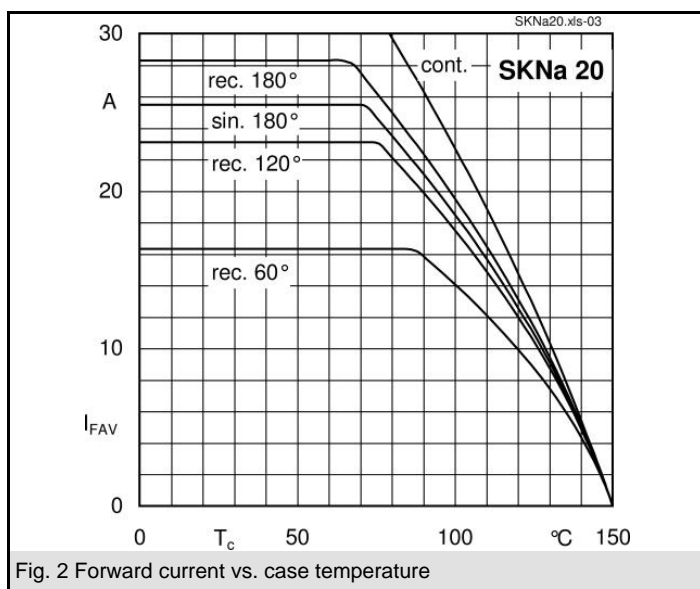
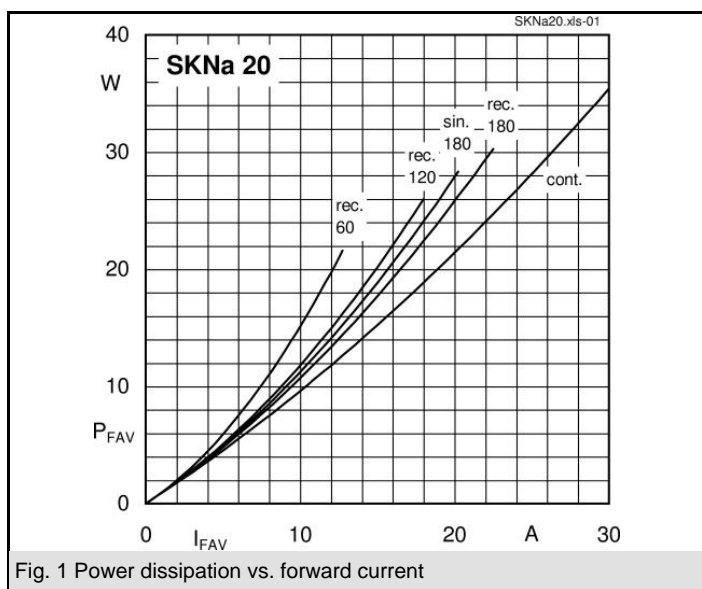
- DC supply for magnetes or solenoids (brakes, valves etc.)
- Field coil supply for DC motors
- Series connections for high voltage applications (dust precipitators)

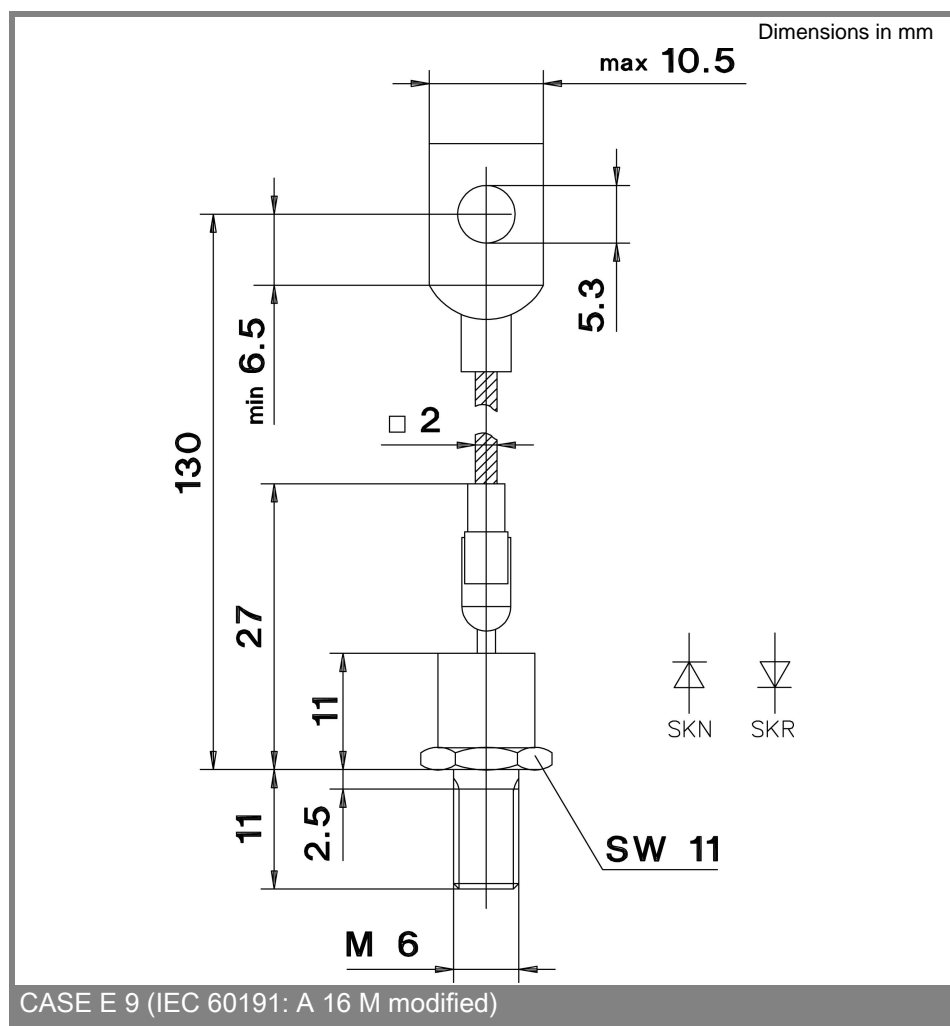
$V_{(BR)min}$ V	$I_{FRMS} = 40$ A (maximum value for continuous operation) $I_{FAV} = 20$ A (sin. 180; $T_c = 93$ °C)	C_{max} μF	R_{min} Ω
1300	SKNa 20/13		
1700	SKNa 20/17		

Symbol	Conditions	Values	Units
I_{FAV}	sin. 180; $T_c = 85$ (100) °C	22 (18)	A
I_D	K 9; $T_a = 45$ °C; B2 / B6	17 / 24	A
	K 3; $T_a = 45$ °C; B2 / B6	30 / 42	A
I_{FSM} i^2t	$T_{vj} = 25$ °C; 10 ms	375	A
	$T_{vj} = 150$ °C; 10 ms	320	A
	$T_{vj} = 25$ °C; 8,3 ... 10 ms	700	A²s
	$T_{vj} = 150$ °C; 8,3 ... 10 ms	510	A²s
V_F	$T_{vj} = 25$ °C; $I_F = 60$ A	max. 1,55	V
$V_{(TO)}$	$T_{vj} = 150$ °C	0,85	V
r_T	$T_{vj} = 150$ °C	11	mΩ
I_{RD}	$T_{vj} = 25$ °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
a		5 * 9,81	m/s²
m	approx.	10	g
Case		E 9	



SKN





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