SKNa 4

Stud Diode

Avalanche Diode

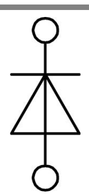
SKNa 4

Features

- Avalanche type reverse characteristic up to 1700V
- Transient voltage proof within specified limits
- Hermetic metal case with glass insulator
- Anode side threaded stud ISO M4
- Integrated cooling fins
- 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)



SKN

$V_{(BR)min}$	I_{FRMS} = 10 A (maximum value for continuous operation)	C_{max}	R_{min}
V	I_{FAV} = 4 A (sin. 180; T_a = 35 °C)	µF	Ω
1300	SKNa 4/13		
1700	SKNa 4/17		

Symbol	Conditions	Values	Units
I_{FAV}	sin. 180; T_a = 45 (85) °C	3,7 (2,9)	A
I_{FAV}	rec. 120; T_a = 45 °C	3,5	
I_{FSM}	T_{vj} = 25 °C; 10 ms	190	A
	T_{vj} = 150 °C; 10 ms	160	A
i²t	T_{vj} = 25 °C; 8,3 ... 10 ms	180	A²s
	T_{vj} = 150 °C; 8,3 ... 10 ms	130	A²s
V_F	T_{vj} = 25 °C; I_F = 10 A	max. 1,2	V
$V_{(TO)}$	T_{vj} = 150 °C	max. 0,85	V
r_T	T_{vj} = 150 °C	max. 30	mΩ
I_{RD}	T_{vj} = 150 °C; V_{RD} = $V_{(BR)min}$	max. 600	µA
P_{RSM}	T_{vj} = 150 °C; t_p = 10 µs	3	kW
$R_{th(j-c)}$		1,8	K/W
$R_{th(j-a)}$		25	K/W
T_{vj}		- 40 ... + 150	°C
T_{stg}		- 40 ... + 180	°C
V_{isol}		-	V~
M_s		0,8	Nm
a		5 * 9,81	m/s²
m	approx.	20	g
Case		E 6	

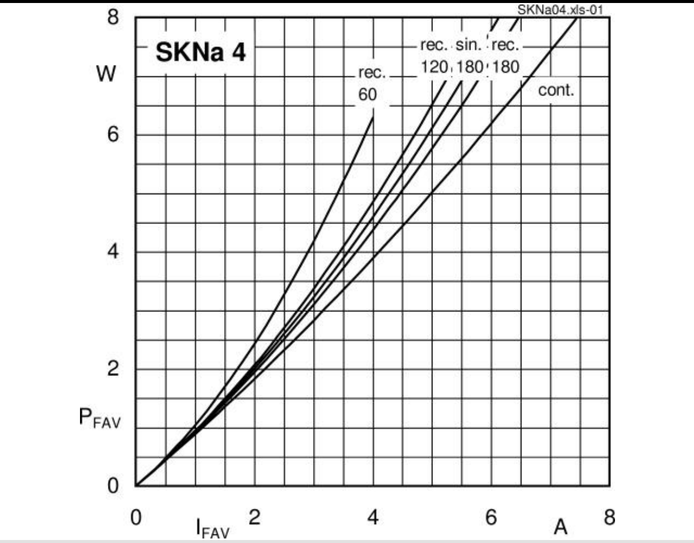


Fig. 1 Power dissipation vs. forward current

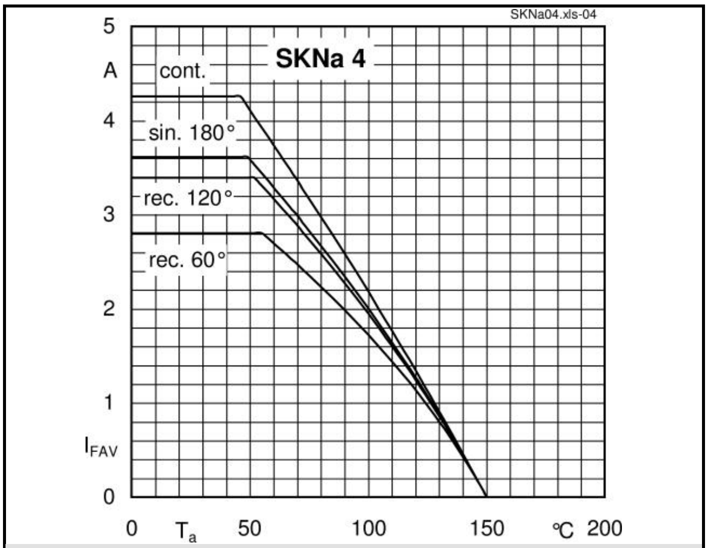


Fig. 3 Forward current vs. ambient temperature

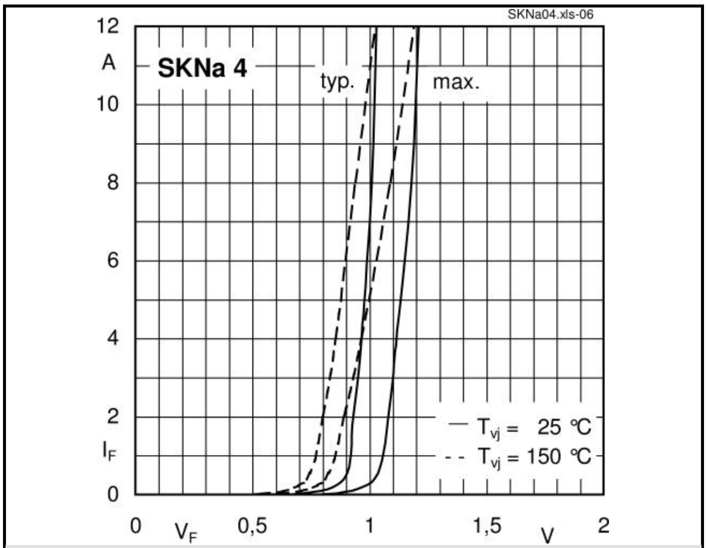


Fig. 5 Forward characteristics

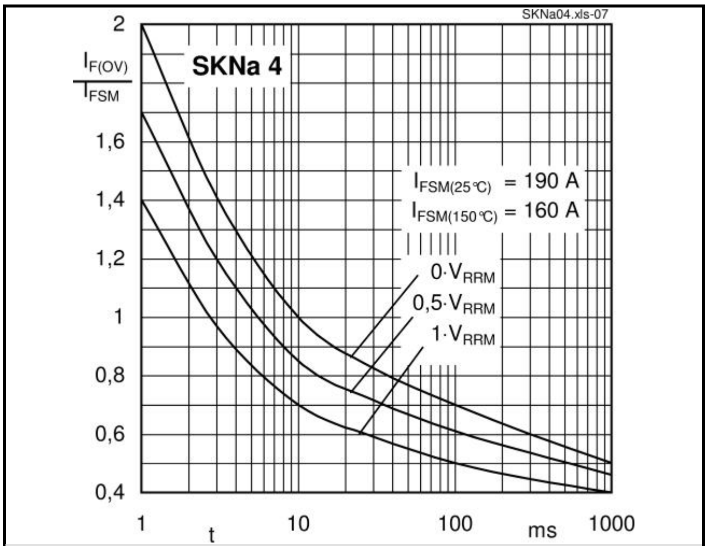


Fig. 6 Rated surge overload current vs. time

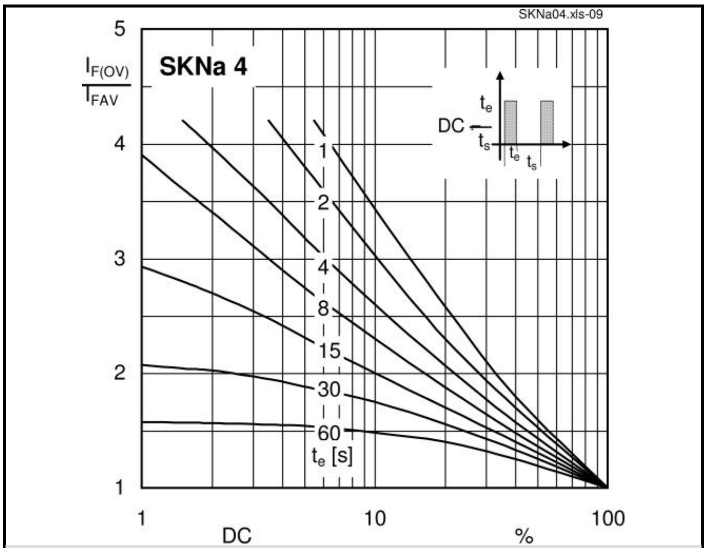


Fig. 7 Rated overload current vs. duty cycle

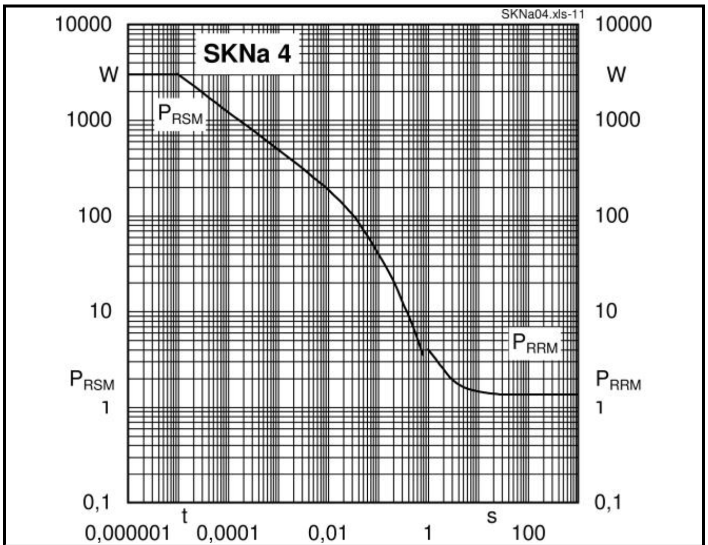
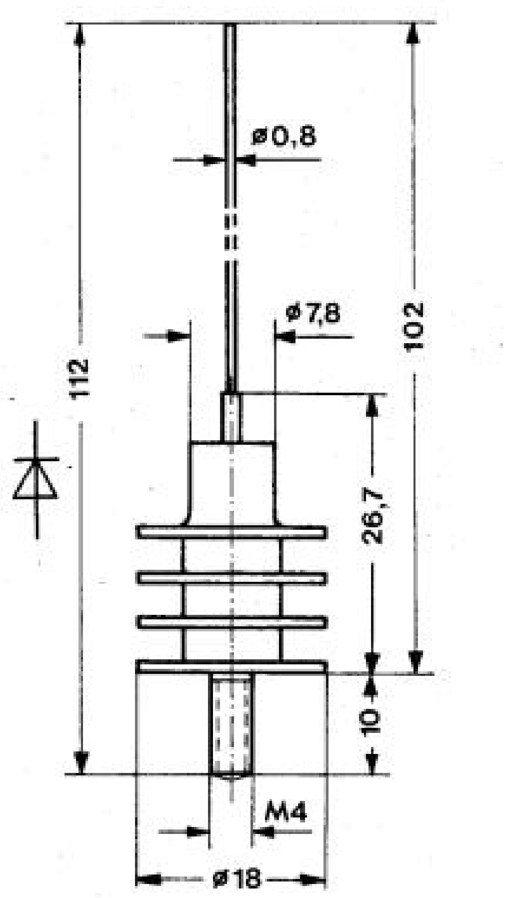


Fig. 9 Reverse power dissipation vs. time

Dimensions in mm



CASE E 6

This technical information specifies semiconductor devices but promises no characteristics. No warranty or guarantee expressed or implied is made regarding delivery, performance or suitability.

