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## Stud Diode

## Avalanche Diode

### SKNa 2

#### Features

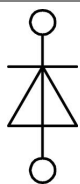
- Avalanche type reverse characteristic up to 1700V
- Transient voltage proof within specified limits
- Hermetic metal case with glass insulator
- Anode side threaded stud ISO M4 with lead wire in addition
- SKN: Anode to stud

#### 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)

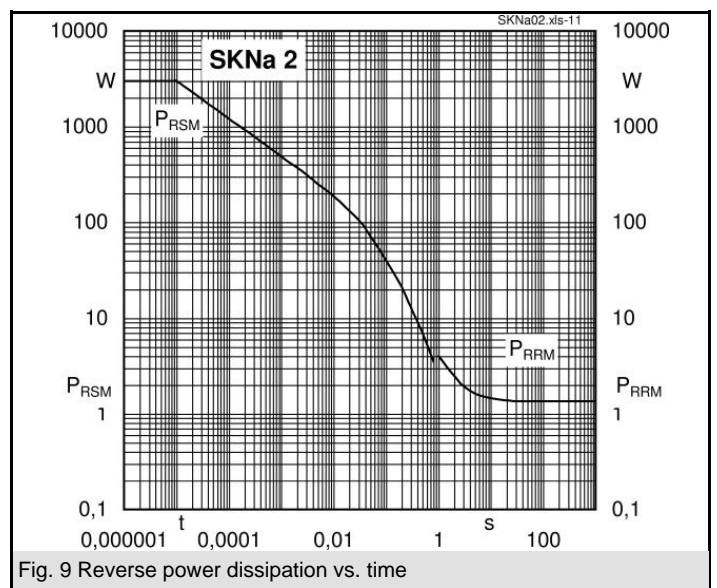
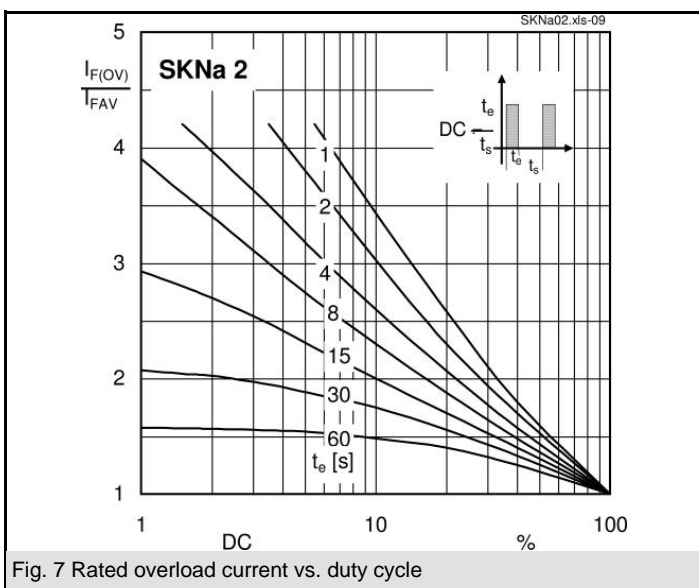
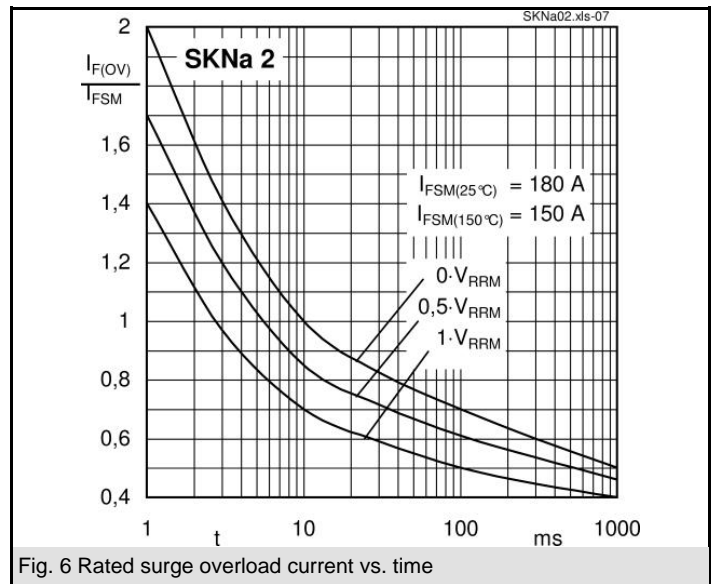
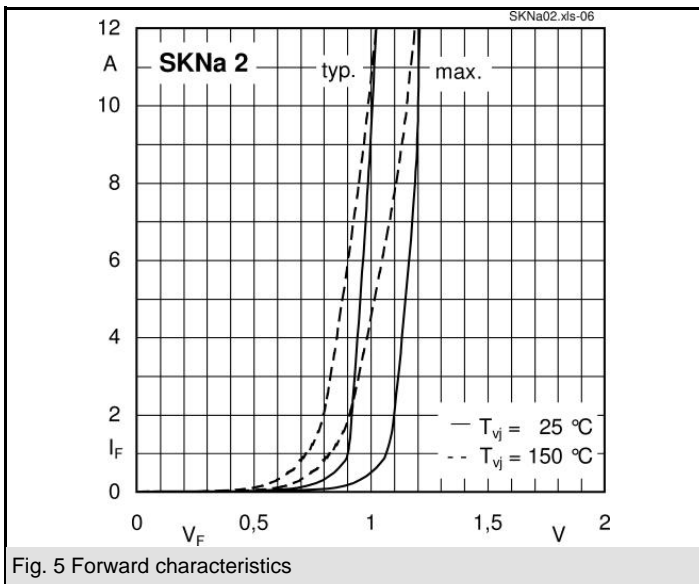
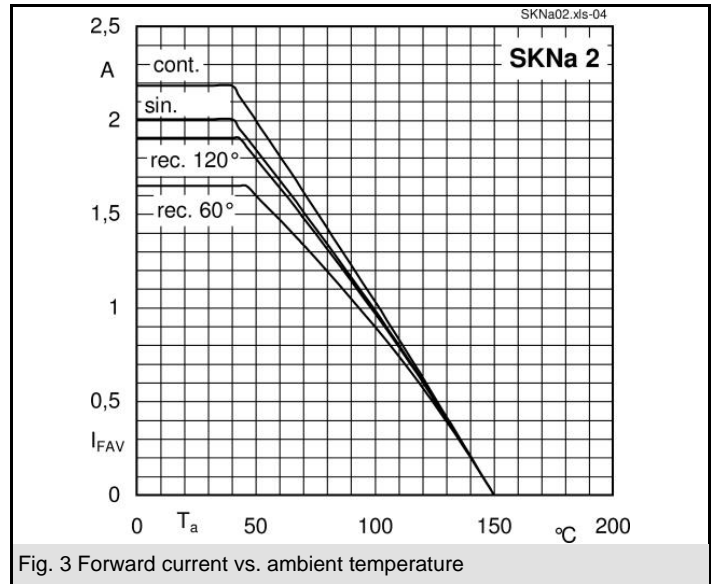
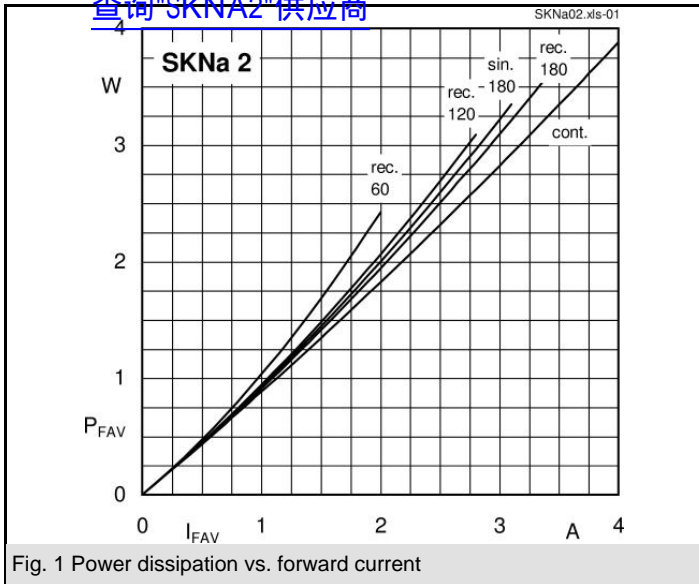
$V_{(BR)min}$	$I_{FRMS} = 5 A$ (maximum value for continuous operation)	$C_{max}$	$R_{min}$
V	$I_{FAV} = 2 A$ (sin. 180; $T_a = 45 ^\circ C$ )	$\mu F$	$\Omega$
1300	SKNa 2/13		
1700	SKNa 2/17		

Symbol	Conditions	Values	Units
$I_{FAV}$	sin. 180; $T_a = 45 (85) ^\circ C$	2 (1,25)	A
$I_{FAV}$	rec. 120; $T_a = 45 ^\circ C$	1,9	A
$I_{FSM}$	$T_{vj} = 25 ^\circ C$ ; 10 ms	180	A
	$T_{vj} = 150 ^\circ C$ ; 10 ms	150	A
$i^2t$	$T_{vj} = 25 ^\circ C$ ; 8,3 ... 10 ms	160	A <sup>2</sup> s
	$T_{vj} = 150 ^\circ C$ ; 8,3 ... 10 ms	110	A <sup>2</sup> s
$V_F$	$T_{vj} = 25 ^\circ C$ ; $I_F = 10 A$	max. 1,2	V
$V_{(TO)}$	$T_{vj} = 150 ^\circ C$	max. 0,85	V
$r_T$	$T_{vj} = 150 ^\circ C$	max. 30	m $\Omega$
$I_{RD}$	$T_{vj} = 150 ^\circ C$ ; $V_{RD} = V_{(BR)min}$	max. 600	$\mu A$
$P_{RSM}$	$T_{vj} = 150 ^\circ C$ ; $t_p = 10 \mu s$	3	kW
$R_{th(j-c)}$		2,5	K/W
$R_{th(j-a)}$		55	K/W
$T_{vj}$		- 40 ... + 150	$^\circ C$
$T_{stg}$		- 40 ... + 180	$^\circ C$
$V_{isol}$		-	V~
$M_s$		0,8	Nm
a		5 * 9,81	m/s <sup>2</sup>
m	approx.	6	g
Case		E 5	



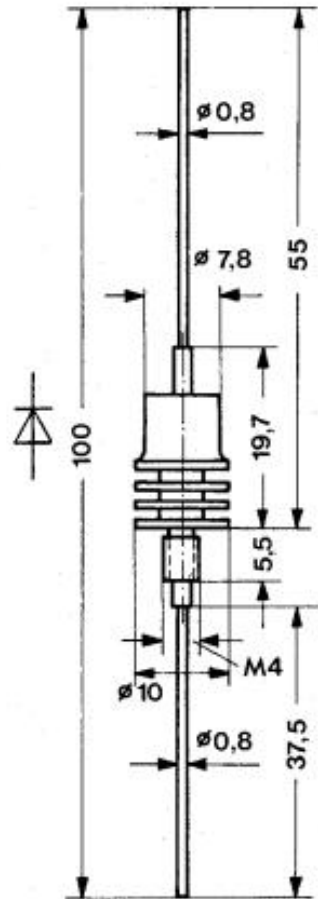
SKN

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Dimensions in mm



CASE E 5 (IEC 60191: A 2 modified; JEDEC: DO-1 modified)

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