

**Axial Lead Diode**

## Avalanche Diode

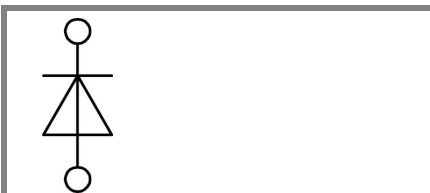
SKa 1

### Features

- Avalanche type reverse characteristic
- Transient voltage proof within specified limits
- Taped for automatic insertion
- Available with formed leads on request
- Plastic material used carries Underwriter Laboratories flammability classification 94V-0

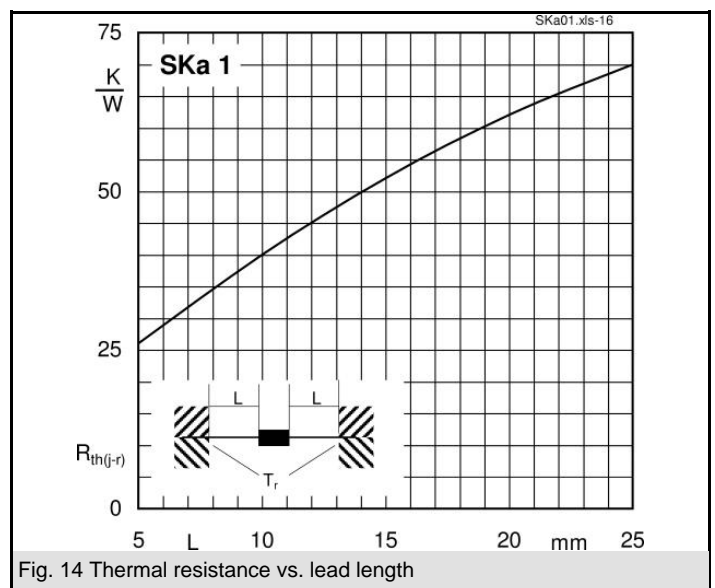
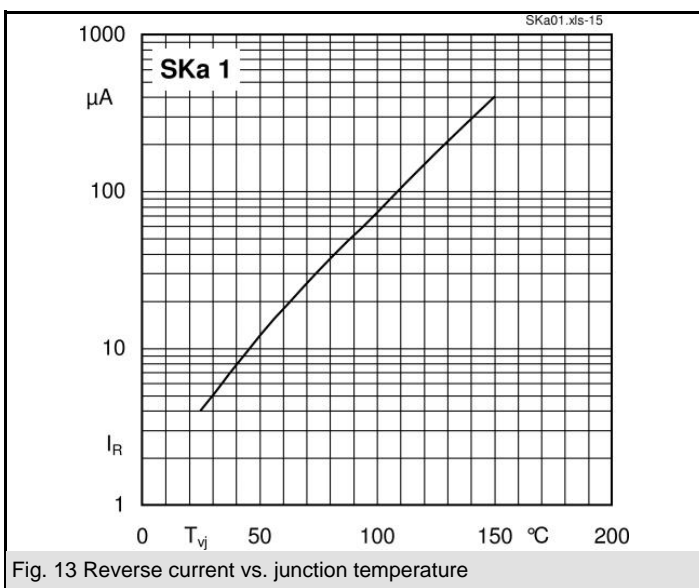
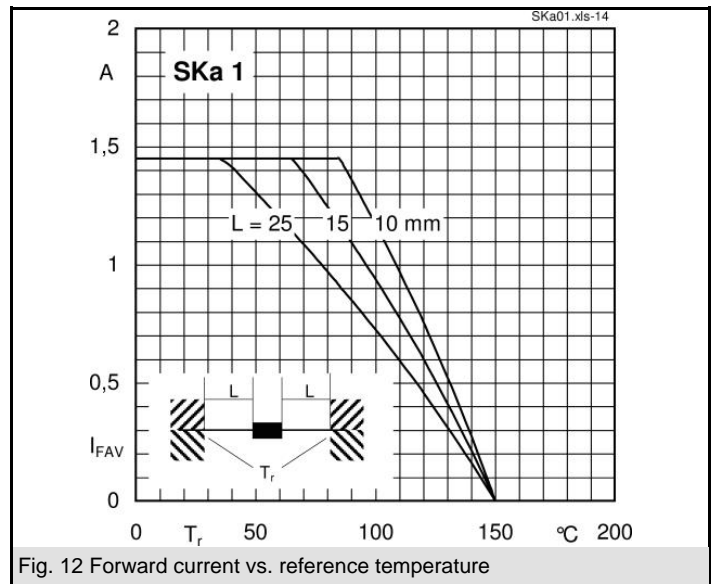
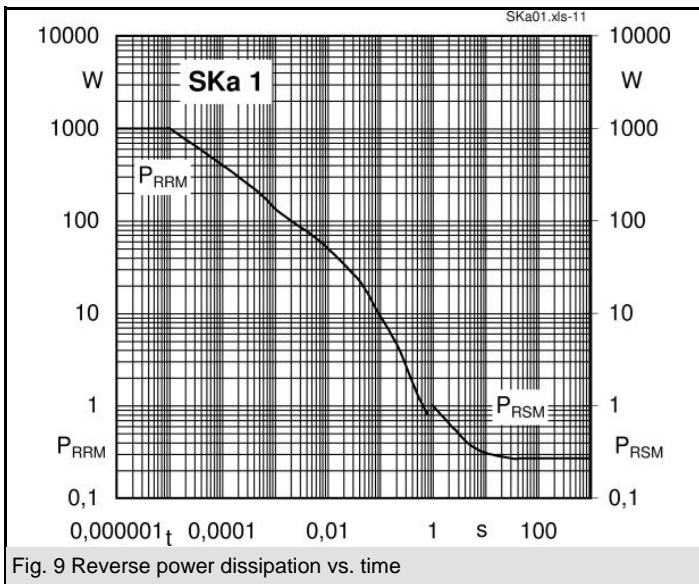
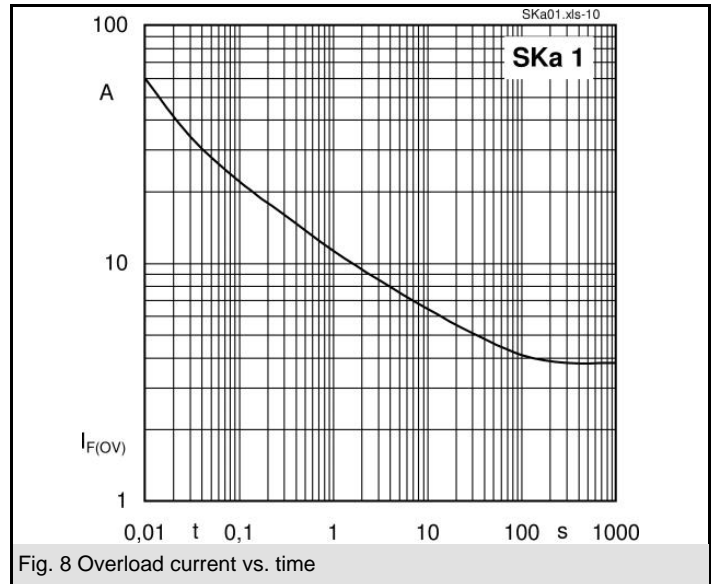
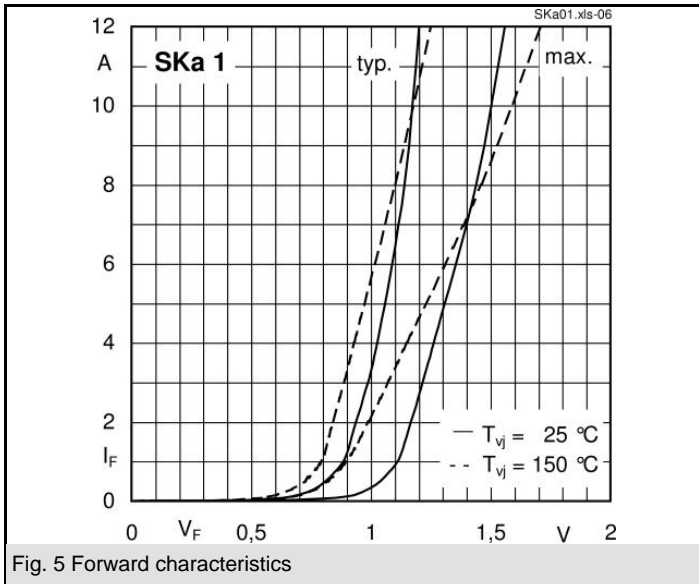
### Typical Applications

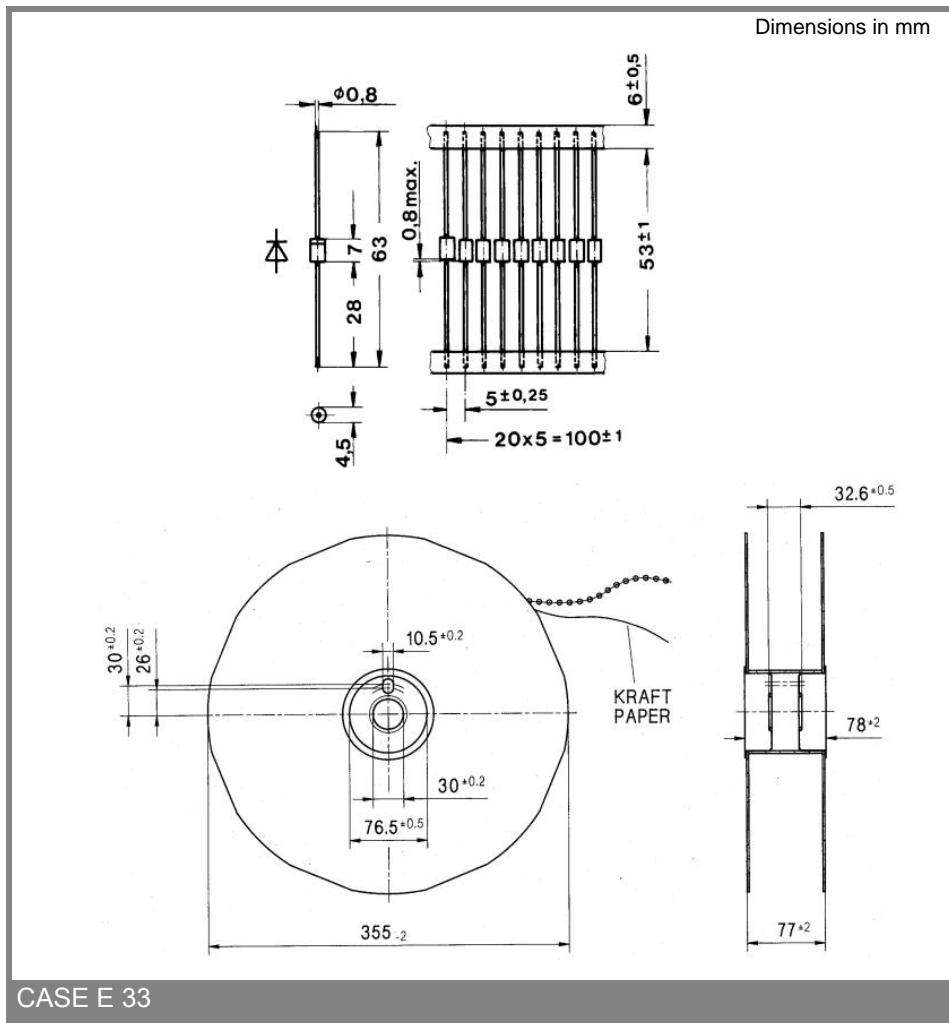
- DC supply for magnetes or solenoids (brakes, valves etc.)
- Series connections for high voltage applications (dust precipitators)



$V_{(BR)min}$	$I_{FRMS} = 3\text{ A}$ (maximum value for continuous operation)	$C_{max}$	$R_{min}$
V	$I_{FAV} = 1\text{ A}$ (sin. 180; $T_a = 60\text{ °C}$ )	$\mu\text{F}$	$\Omega$
1300	SKa 1/13	400	6
1700	SKa 1/17	200	10

Symbol	Conditions	Values	Units
$I_{FAV}$	$T_r = 85\text{ °C}$ ; $L = 10\text{ mm}$ ; sin. 180	1,45	A
$I_{FAV}$	$T_a = 45\text{ °C}$ ; PCB 50 x 50 mm	1,15	A
$I_{FSM}$	$T_{vj} = 25\text{ °C}$ ; 10 ms	60	A
	$T_{vj} = 150\text{ °C}$ ; 10 ms	50	A
$i^2t$	$T_{vj} = 25\text{ °C}$ ; 8,3 ... 10 ms	18	A <sup>2</sup> s
	$T_{vj} = 150\text{ °C}$ ; 8,3 ... 10 ms	12,5	A <sup>2</sup> s
$V_F$	$T_{vj} = 25\text{ °C}$ ; $I_F = 10\text{ A}$	max. 1,5	V
$V_{(TO)}$	$T_{vj} = 150\text{ °C}$	max. 0,85	V
$r_T$	$T_{vj} = 150\text{ °C}$	max. 75	m $\Omega$
$I_{RD}$	$T_{vj} = 150\text{ °C}$ ; $V_{RD} = V_{(BR)min}$	max. 400	$\mu\text{A}$
$P_{RSM}$	$T_{vj} = 150\text{ °C}$ ; $t_p = 10\text{ }\mu\text{s}$	1	kW
$R_{th(j-r)}$	$L = 10\text{ mm}$	40	K/W
$R_{th(j-a)}$	PCB 50 x 50 mm	85	K/W
$T_{vj}$		- 40 ... + 150	$^{\circ}\text{C}$
$T_{stg}$		- 40 ... + 150	$^{\circ}\text{C}$
$T_{sold}$	max. 10 s; $L > 9\text{ mm}$	250	$^{\circ}\text{C}$
$V_{isol}$		-	V~
a		5 * 9,81	m/s <sup>2</sup>
m	approx.	0,5	g
Case	3500 diodes per reel	E 33	





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