

Axial Lead Diode

Avalanche Diode

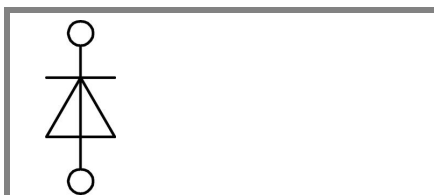
SKa 3

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

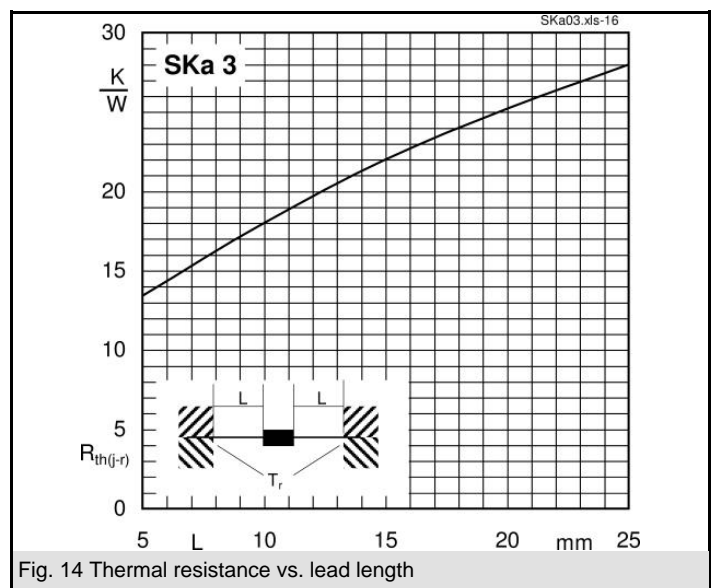
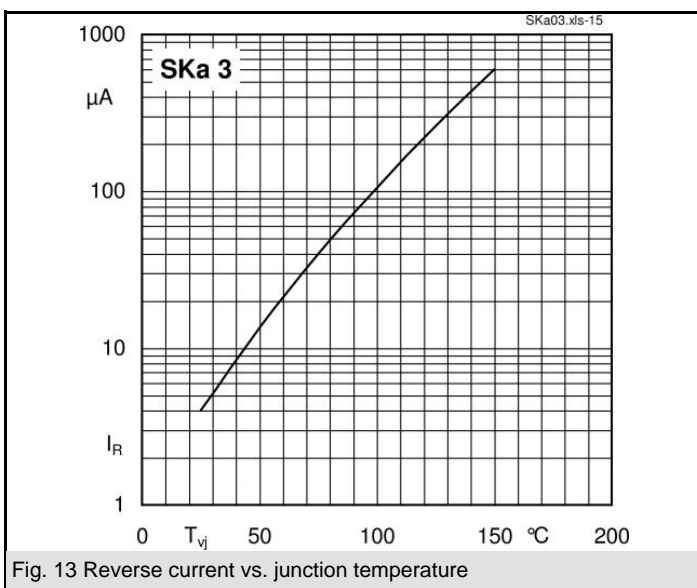
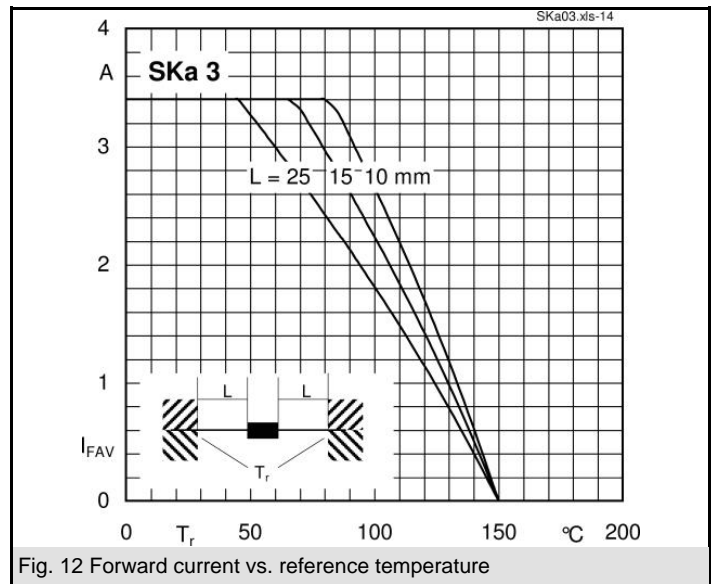
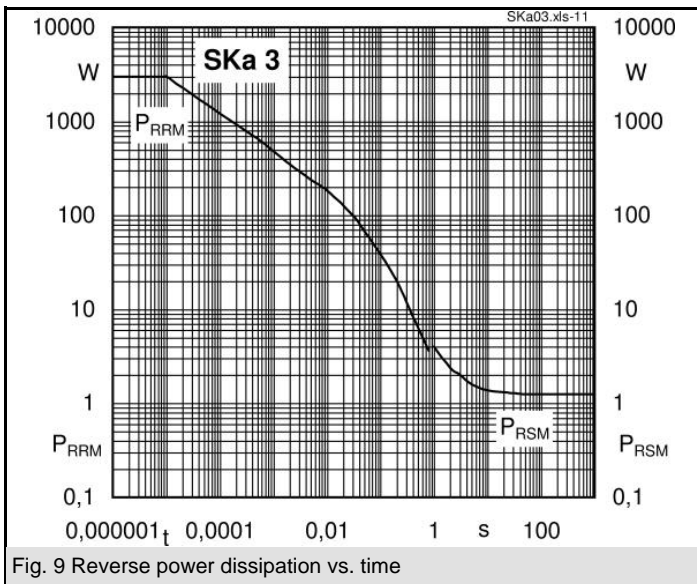
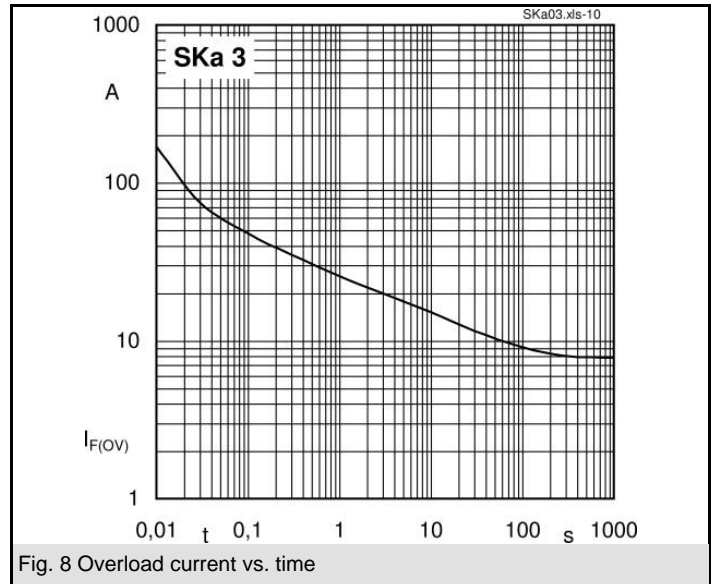
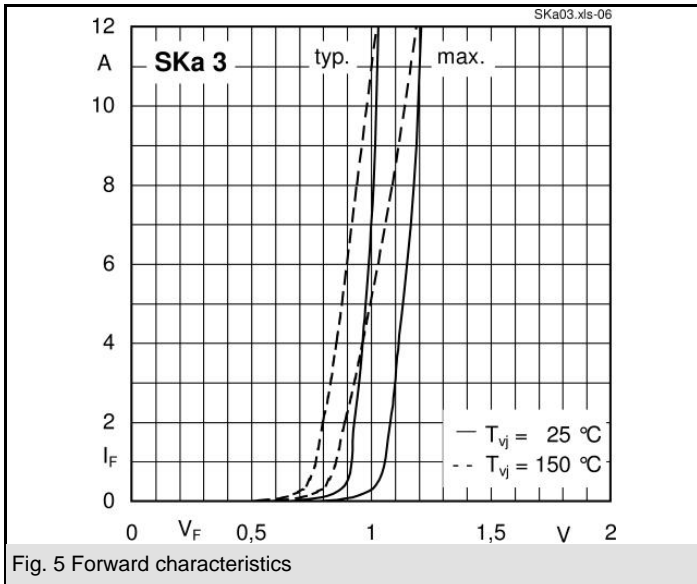
Typical Applications

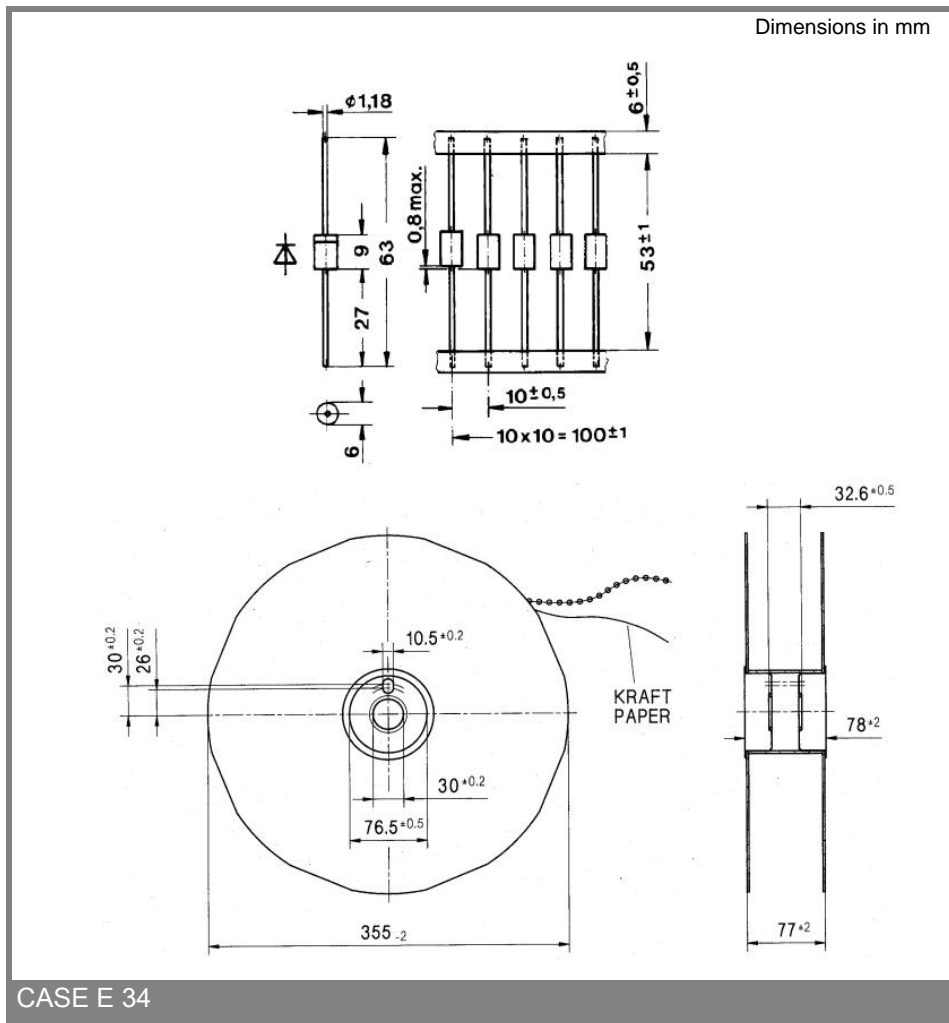
- DC supply for magnetes or solenoids (brakes, valves etc.)
- Series connections for high voltage applications (dust precipitators)



$V_{(BR)min}$ V	$I_{FRMS} = 6,7$ A (maximum value for continuous operation) $I_{FAV} = 3$ A (sin. 180; $T_r = 90$ °C)	C_{max} μ F	R_{min} Ω
1300	SKa 3/13	1600	2
1700	SKa 3/17	800	4

Symbol	Conditions	Values	Units
I_{FAV}	$T_r = 85$ °C; L = 10 mm; sin. 180	3,3	A
I_{FAV}	$T_a = 45$ °C; PCB 50 x 50 mm	1,8	A
I_{FSM}	$T_{vj} = 25$ °C; 10 ms	180	A
	$T_{vj} = 150$ °C; 10 ms	150	A
i^2t	$T_{vj} = 25$ °C; 8,3 ... 10 ms	162	A ² s
	$T_{vj} = 150$ °C; 8,3 ... 10 ms	112,5	A ² s
V_F	$T_{vj} = 25$ °C; $I_F = 10$ A	max. 1,2	V
$V_{(TO)}$	$T_{vj} = 150$ °C	0,85	V
r_T	$T_{vj} = 150$ °C	30	m Ω
I_{RD}	$T_{vj} = 150$ °C; $V_{RD} = V_{(BR)min}$	max. 600	μ A
P_{RSM}	$T_{vj} = 150$ °C; $t_p = 10$ μ s	1,8	kW
$R_{th(j-r)}$	L = 10 mm	18	K/W
$R_{th(j-a)}$	PCB 50 x 50 mm	60	K/W
T_{vj}		- 40 ... + 150	°C
T_{stg}		- 40 ... + 150	°C
T_{sold}	max. 10 s; L > 9 mm	250	°C
V_{isol}		-	V~
a		5 * 9,81	m/s ²
m	approx.	1	g
Case	1500 diodes per reel	E 34	





CASE E 34

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