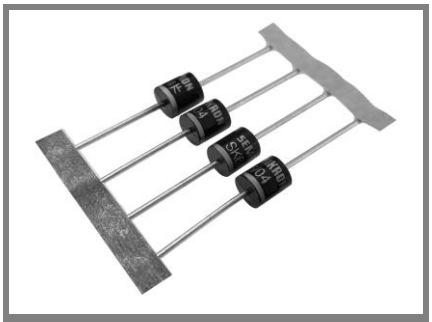
SKa 6



Axial Lead Diode

Avalanche Diode

SKa 6

Features

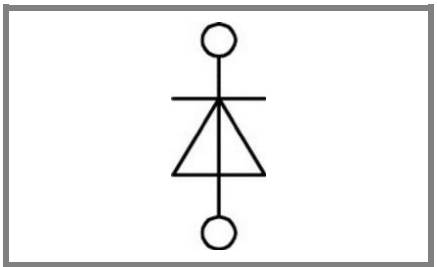
- Avalanche type reverse characteristic
- Reverse voltages up to 2000 V
- Tapped for automatic insertion
- Available with formed leads on request
- Plastic material used carries Underwriter Laboratories flammability classification 94V-0

Typical Applications

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

V_{RSM} V	$V_{(BR)min}$ V	I_{FRMS} = 10 A (maximum value for continuous operation) I_{FAV} = 6 A (sin. 180; T_r = 46°C)
1300	1300	SKa 6/13
1700	1700	SKa 6/17
2000	2000	SKa 6/20

Symbol	Condition	Values	Units
I_{FAV}	T_r = 46°C; L = 10 mm; sin. 180	6	A
	T_r = 100°C; L = 10 mm; sin. 180	3,1	A
I_{FSM}	T_{vj} = 25°C ; 10 ms	375	A
	T_{vj} = 150°C ; 10 ms	320	A
i^2t	T_{vj} = 25°C ; 8,3...10 ms	700	A^2s
	T_{vj} = 150°C ; 8,3...10 ms	510	A^2s
V_F	T_{vj} = 25°C, I_F = 10 A	max. 1,1	V
$V_{(TO)}$	T_{vj} = 150°C	max. 0,85	V
r_T	T_{vj} = 150°C	max. 11	mΩ
I_R	T_{vj} = 25°C ; V_R = $V_{(BR)min}$	max. 10	µA
I_R	T_{vj} = 150°C ; V_R = $V_{(BR)min}$	max. 4	mA
P_{RSM}	T_{vj} = 150 °C, t_p = 10 µs	6	kW
$R_{th(j-r)}$	L = 10mm	17	K/W
$R_{th(j-a)}$	PCB 50 x 50 mm	55	K/W
T_{vj}		-40...+150	°C
T_{stg}		-40...+150	°C
T_{SOLD}	max. 10s; L > 9mm	250	°C
a		5 * 9,81	m/s^2
m	approx.	1,7	g
Case	1000 diodes per reel	SK6	



SK

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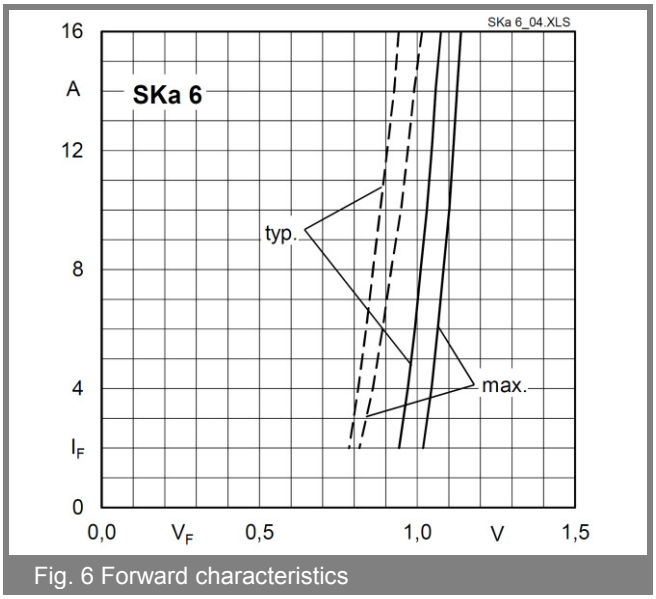


Fig. 6 Forward characteristics

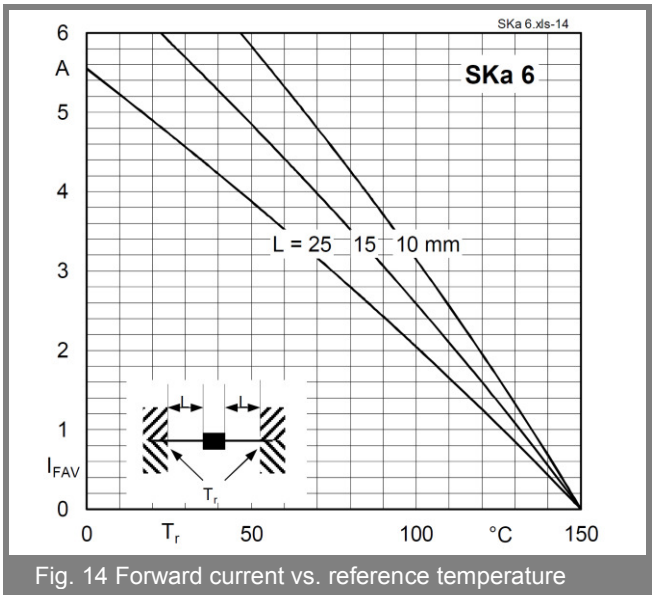


Fig. 14 Forward current vs. reference temperature

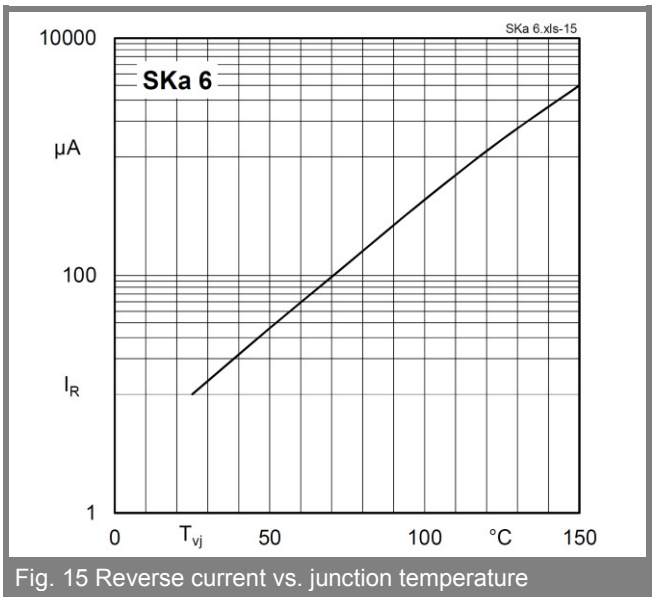


Fig. 15 Reverse current vs. junction temperature

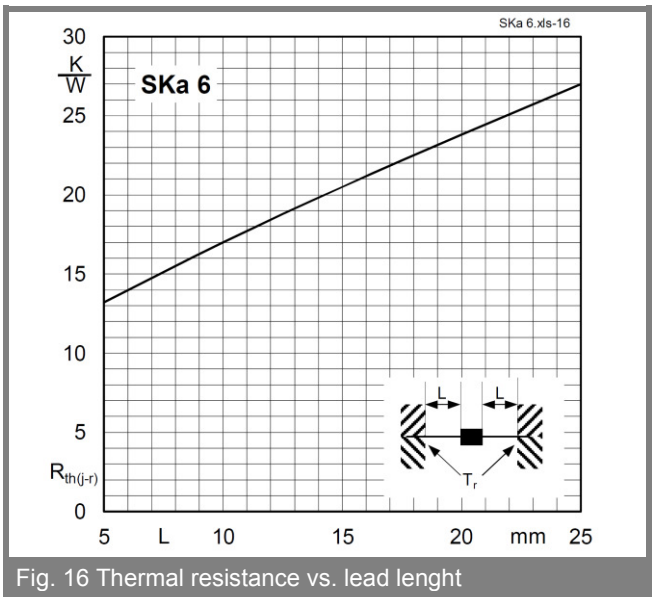
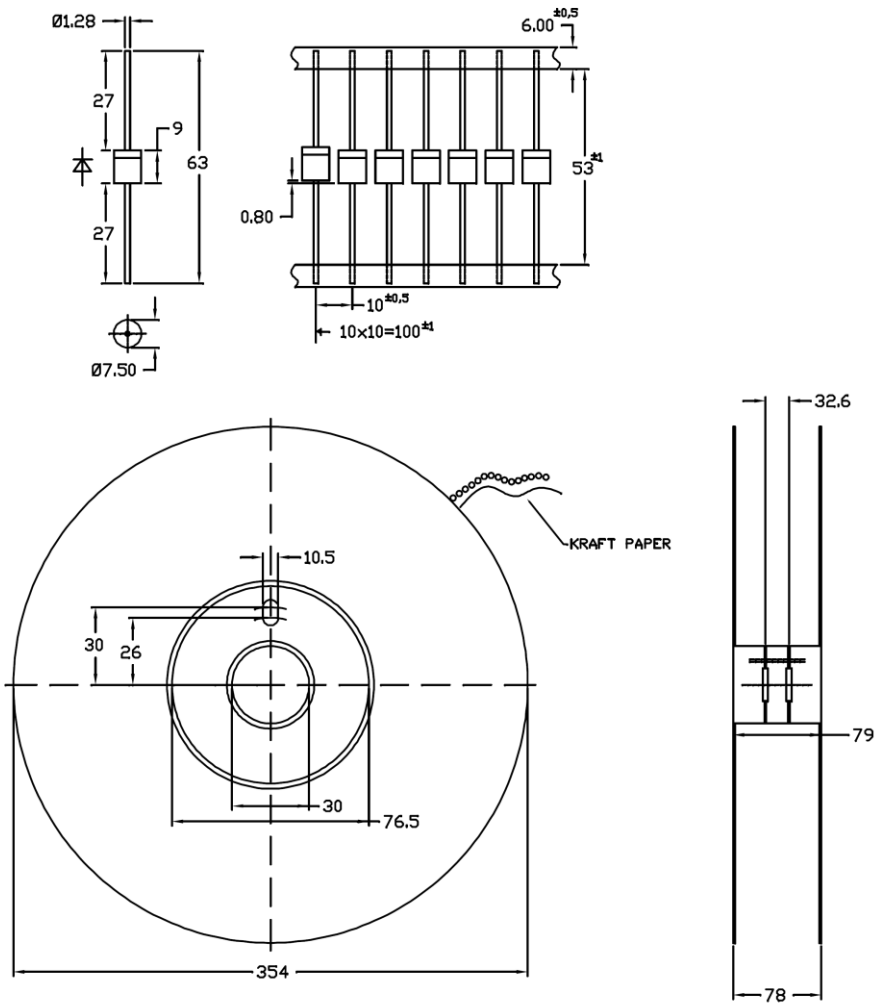


Fig. 16 Thermal resistance vs. lead lenght

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Dimensions in mm



Case SK6

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