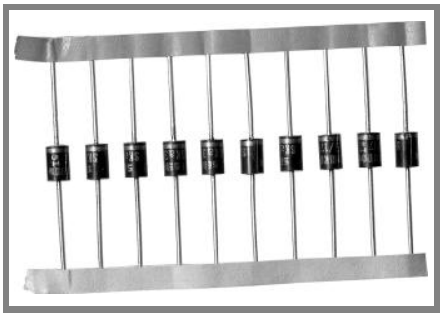
SK 3



Axial Lead Diode

Rectifier Diode

SK 3

Features

- Reverse voltages up to 1600 V
- Taped for automatic insertion
- Available with formed leads on request
- Plastic material used carries Underwriter Laboratories flammability classification 94V-0

Typical Applications

- All-purpose rectifier diodes



V_{RSM} V	V_{RRM} V	I_{FRMS} = 6,7 A (maximum value for continuous operation) I_{FAV} = 3 A (sin. 180; T_r = 90 °C)		
1000	1000	SK 3/10		
1200	1200	SK 3/12		
1400	1400	SK 3/14		
1600	1600	SK 3/16		

Symbol	Conditions	Values	Units
I_{FAV}	sin. 180; L = 10 mm; T_r = 85 (100) °C	3,3 (2,7)	A
I_{FSM}	T_{vj} = 25 °C; 10 ms	180	A
	T_{vj} = 150 °C; 10 ms	150	A
i²t	T_{vj} = 25 °C; 8,3 ... 10 ms	162	A²s
	T_{vj} = 150 °C; 8,3 ... 10 ms	112,5	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_{RRM}	max. 0,6	mA
Q_{rr}	T_{vj} = 150 °C; - di_F/dt = 10 A/µs; I_F = 10A	25	µC
$R_{th(j-r)}$	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 > 9mm	250	°C
V_{isol}		-	V~
a		5 * 9,81	m/s²
m	approx.	1	g
Case	1500 diodes per reel	E 34	

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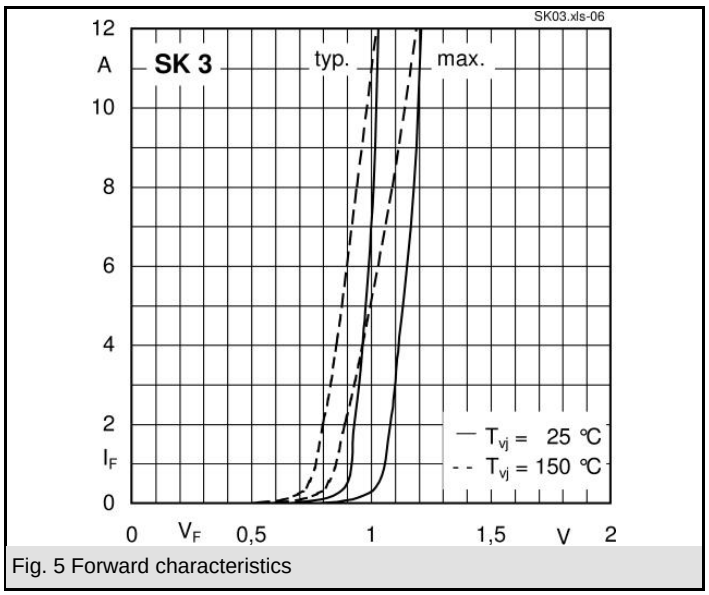


Fig. 5 Forward characteristics

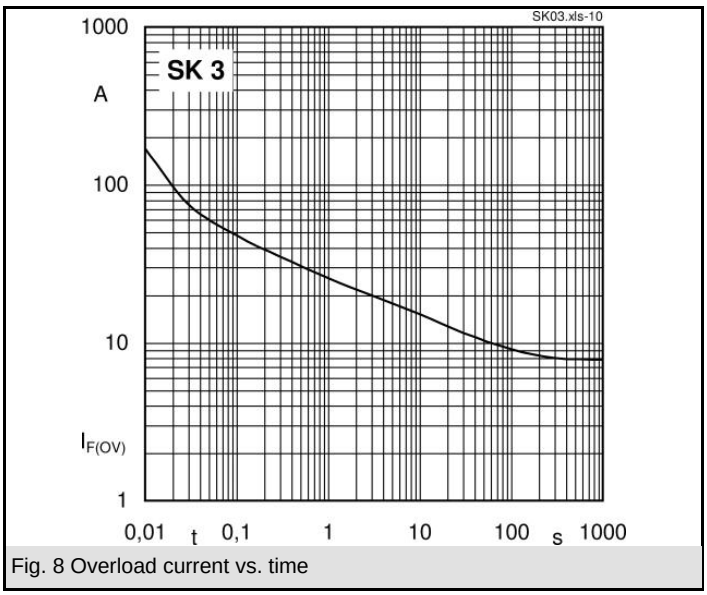


Fig. 8 Overload current vs. time

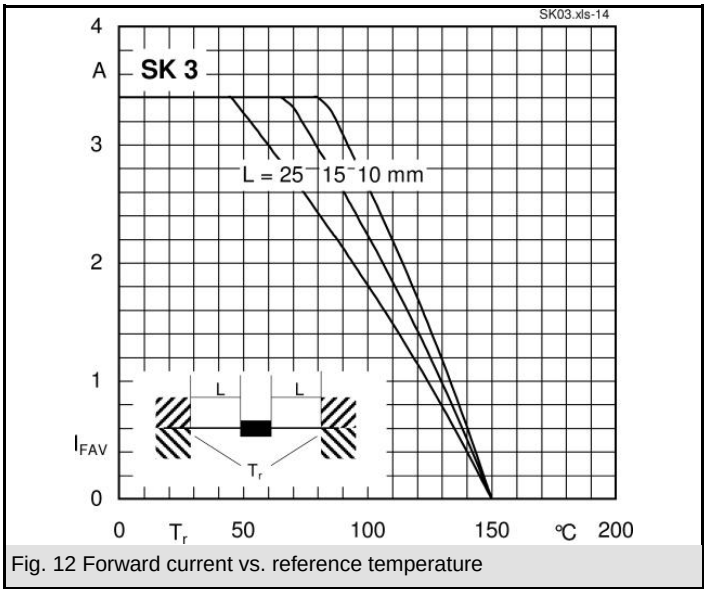


Fig. 12 Forward current vs. reference temperature

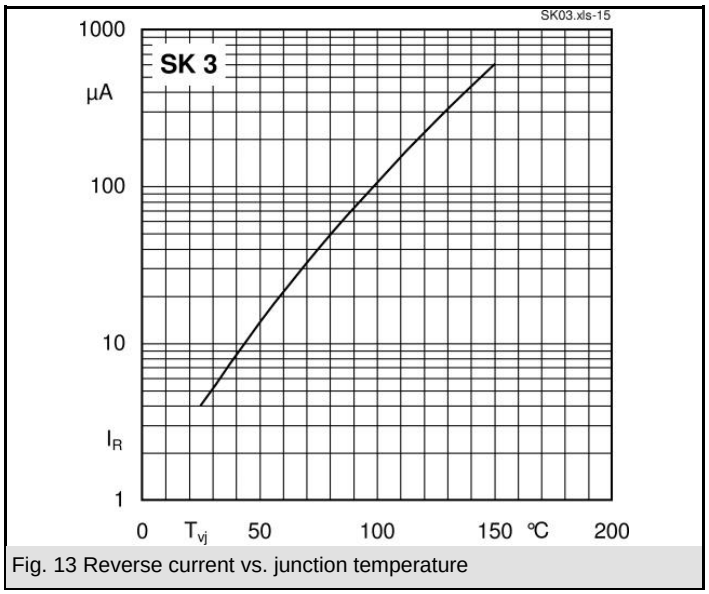


Fig. 13 Reverse current vs. junction temperature

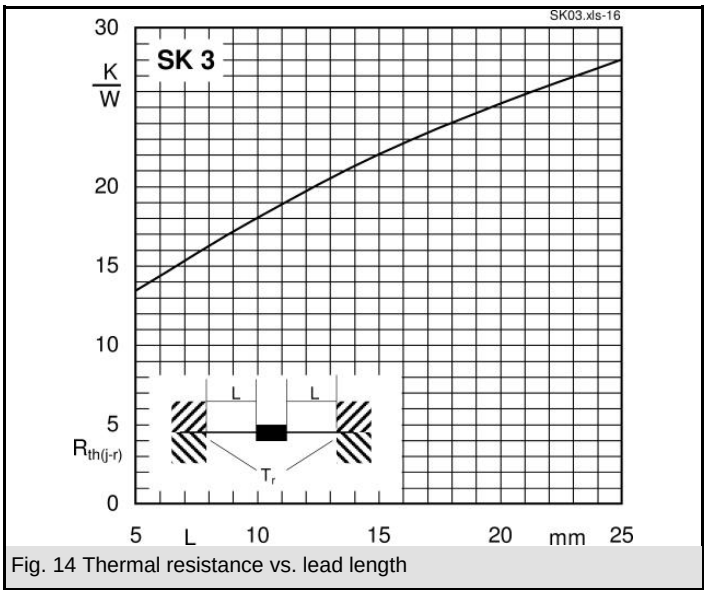
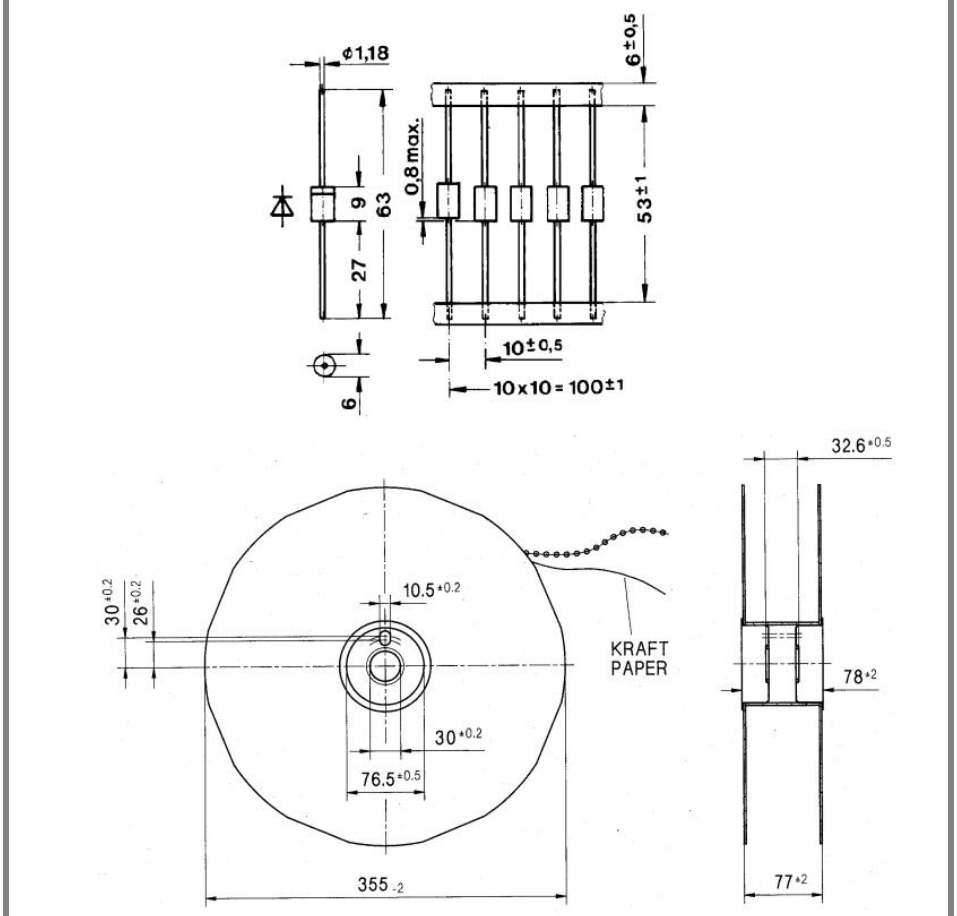


Fig. 14 Thermal resistance vs. lead length

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Dimensions in mm



Case E 34

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