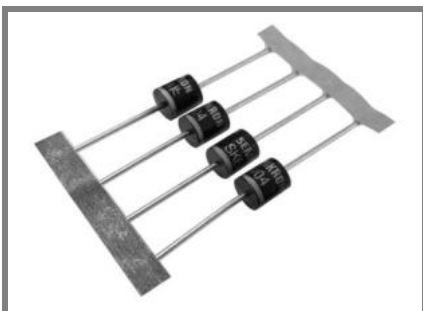


## SK 6



Axial Lead Diode

## Rectifier Diode

## SK 6

## Features

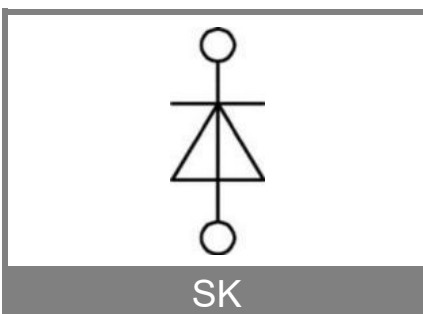
- Reverse voltages up to 1600 V
- Tapped for automatic insertion
- Available with formed leads on request
- Plastic material used carries Underwriter Laboratories flammability classification 94V-0

## Typical Applications

- All-purpose rectifier diodes
- For p.c.b mounting

$V_{RSM}$ V	$V_{RRM}$ V	$I_{FRMS} = 10$ A (maximum value for continuous operation) $I_{FAV} = 6$ A (sin. 180; $T_r = 46^\circ\text{C}$ )
400	400	SK 6/04
800	800	SK 6/08
1000	1000	SK 6/10
1200	1200	SK 6/12
1600	1600	SK 6/16

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



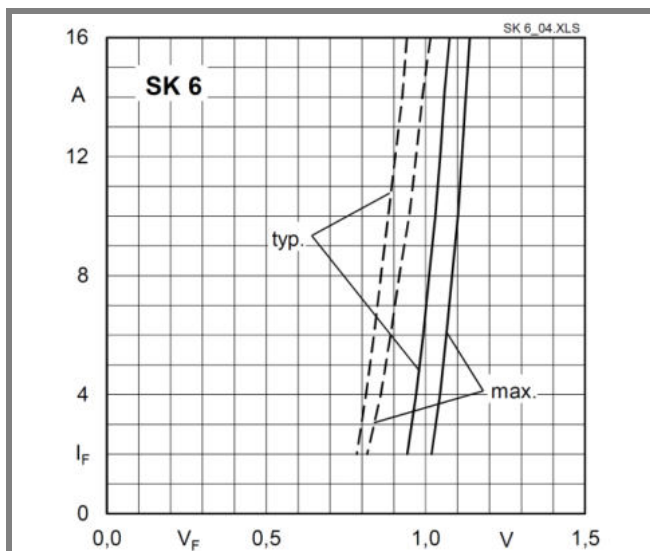


Fig. 6 Forward characteristics

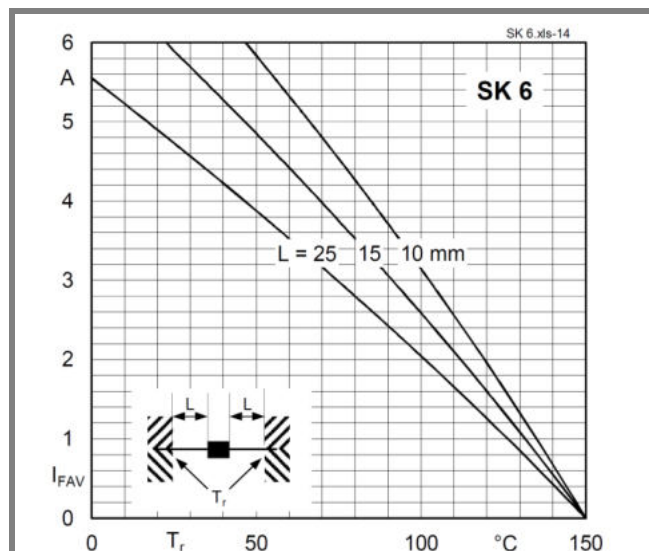


Fig. 14 Forward current vs. reference temperature

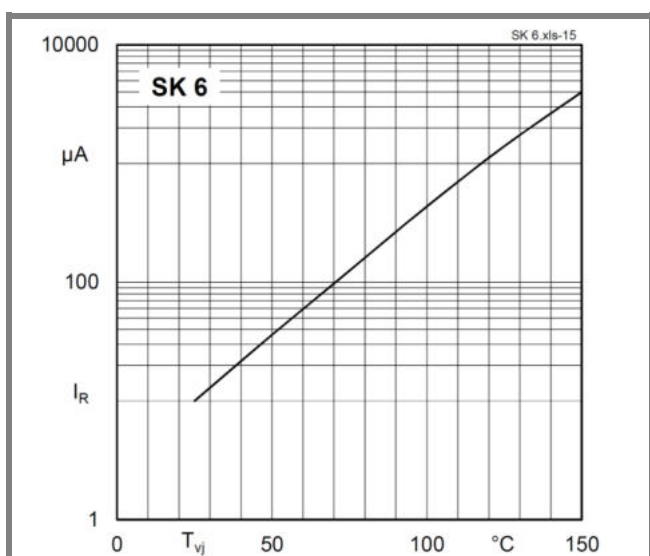


Fig. 15 Reverse current vs. junction temperature

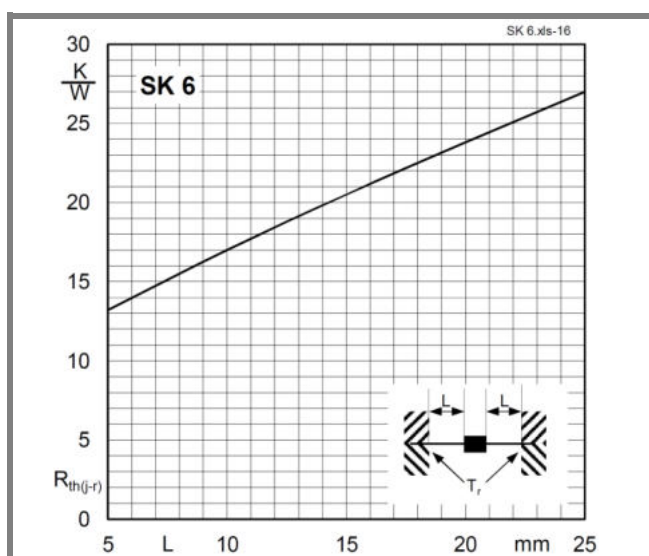
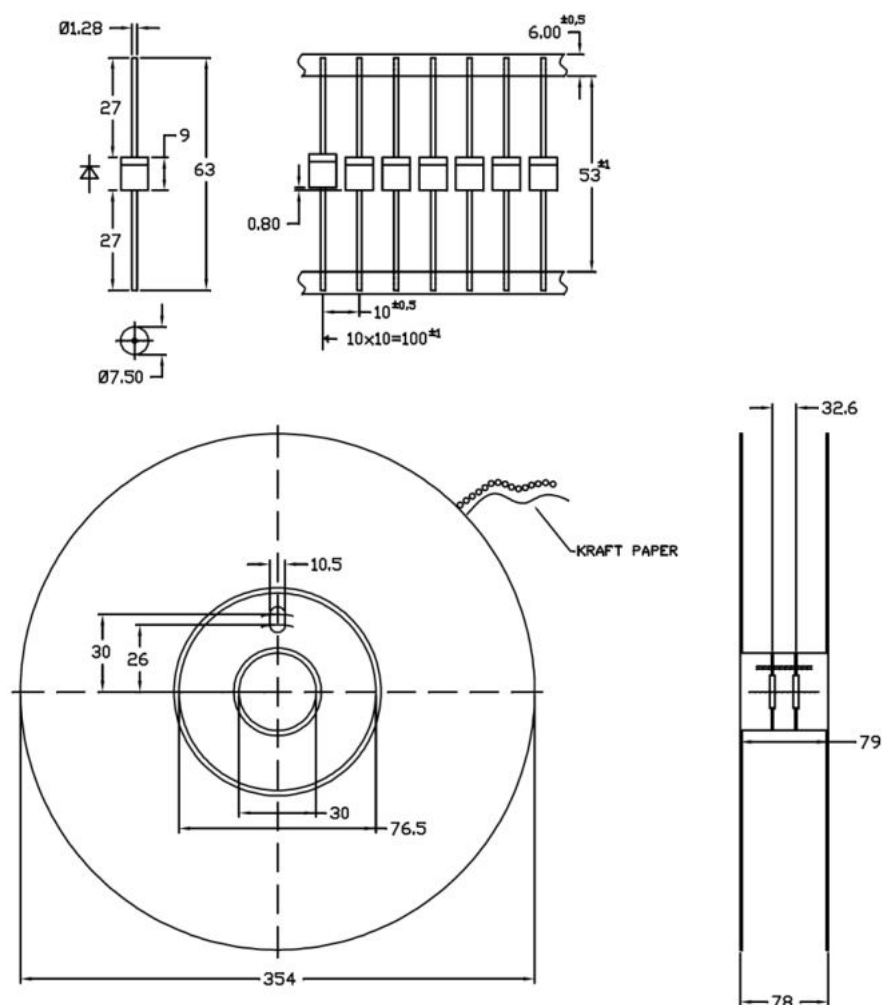


Fig. 16 Thermal resistance vs. lead length

## SK 6

Dimensions in mm



## Case SK6

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