

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	$I_{FRMS} = 6,7 \text{ A}$ (maximum value for continuous operation) $I_{FAV} = 3 \text{ A}$ (sin. 180; $T_r = 90 \text{ }^\circ\text{C}$ )		
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; $L = 10 \text{ mm}$ ; $T_r = 85 \text{ (100) }^\circ\text{C}$	3,3 (2,7)	A
$I_{FSM}$	$T_{vj} = 25 \text{ }^\circ\text{C}; 10 \text{ ms}$ $T_{vj} = 150 \text{ }^\circ\text{C}; 10 \text{ ms}$	180	A
$i^2t$	$T_{vj} = 25 \text{ }^\circ\text{C}; 8,3 \dots 10 \text{ ms}$ $T_{vj} = 150 \text{ }^\circ\text{C}; 8,3 \dots 10 \text{ ms}$	150 162 112,5	A <sup>2</sup> s
$V_F$	$T_{vj} = 25 \text{ }^\circ\text{C}; I_F = 10 \text{ A}$	max. 1,2	V
$V_{(TO)}$	$T_{vj} = 150 \text{ }^\circ\text{C}$	max. 0,85	V
$r_T$	$T_{vj} = 150 \text{ }^\circ\text{C}$	max. 30	mΩ
$I_{RD}$	$T_{vj} = 150 \text{ }^\circ\text{C}; V_{RD} = V_{RRM}$	max. 0,6	mA
$Q_{rr}$	$T_{vj} = 150 \text{ }^\circ\text{C}; - di_F/dt = 10 \text{ A}/\mu\text{s}; I_F = 10 \text{ A}$	25	μC
$R_{th(j-r)}$	$L = 10 \text{ mm}$	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; $L > 9 \text{ mm}$	250	°C
$V_{isol}$ a m	approx.	- 5 * 9,81 1	V~ m/s <sup>2</sup> g
Case	1500 diodes per reel	E 34	



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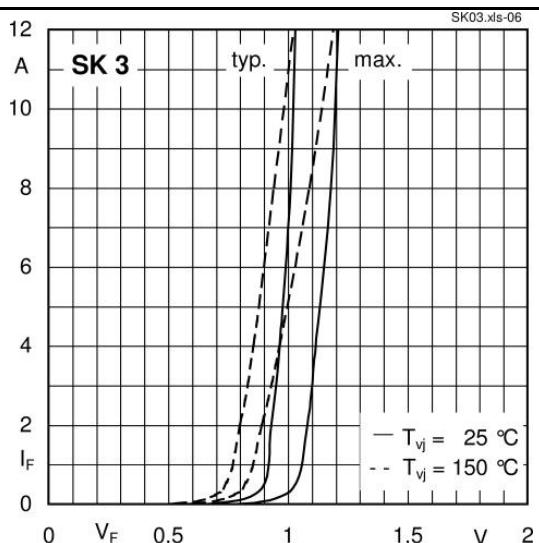


Fig. 5 Forward characteristics

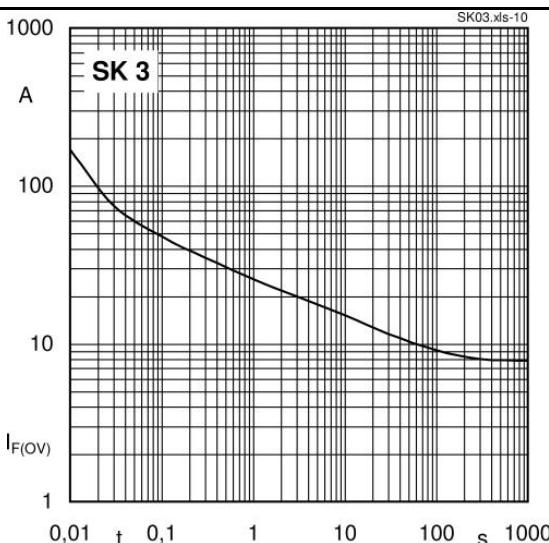


Fig. 8 Overload current vs. time

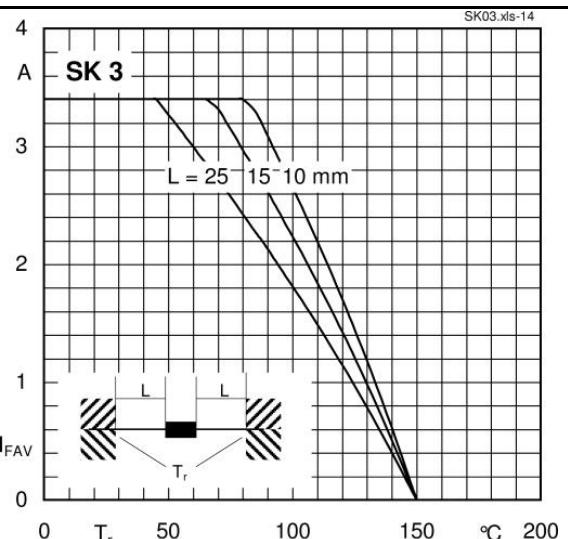


Fig. 12 Forward current vs. reference temperature

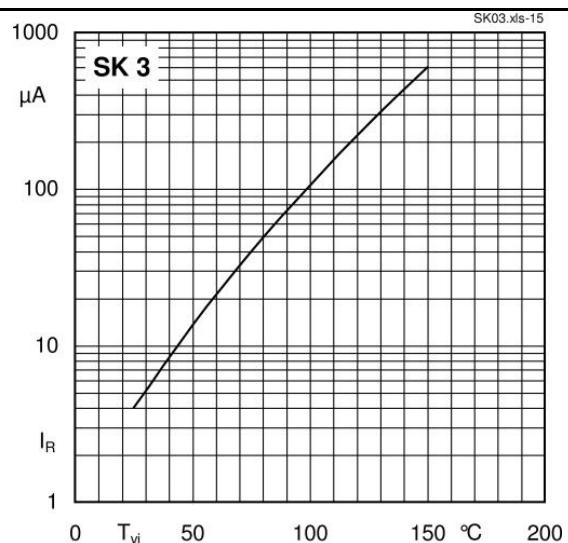


Fig. 13 Reverse current vs. junction temperature

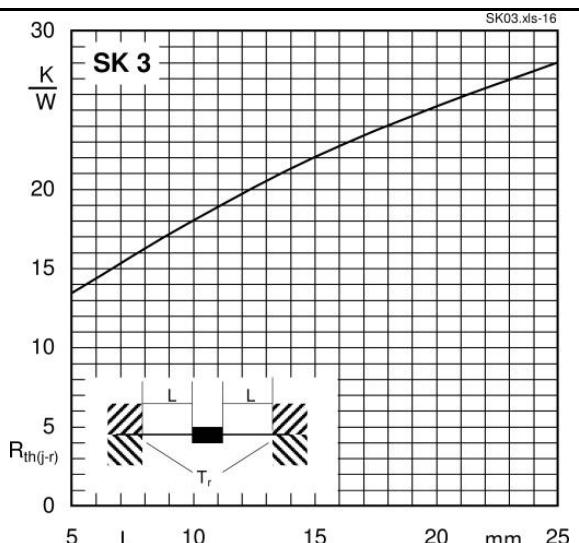
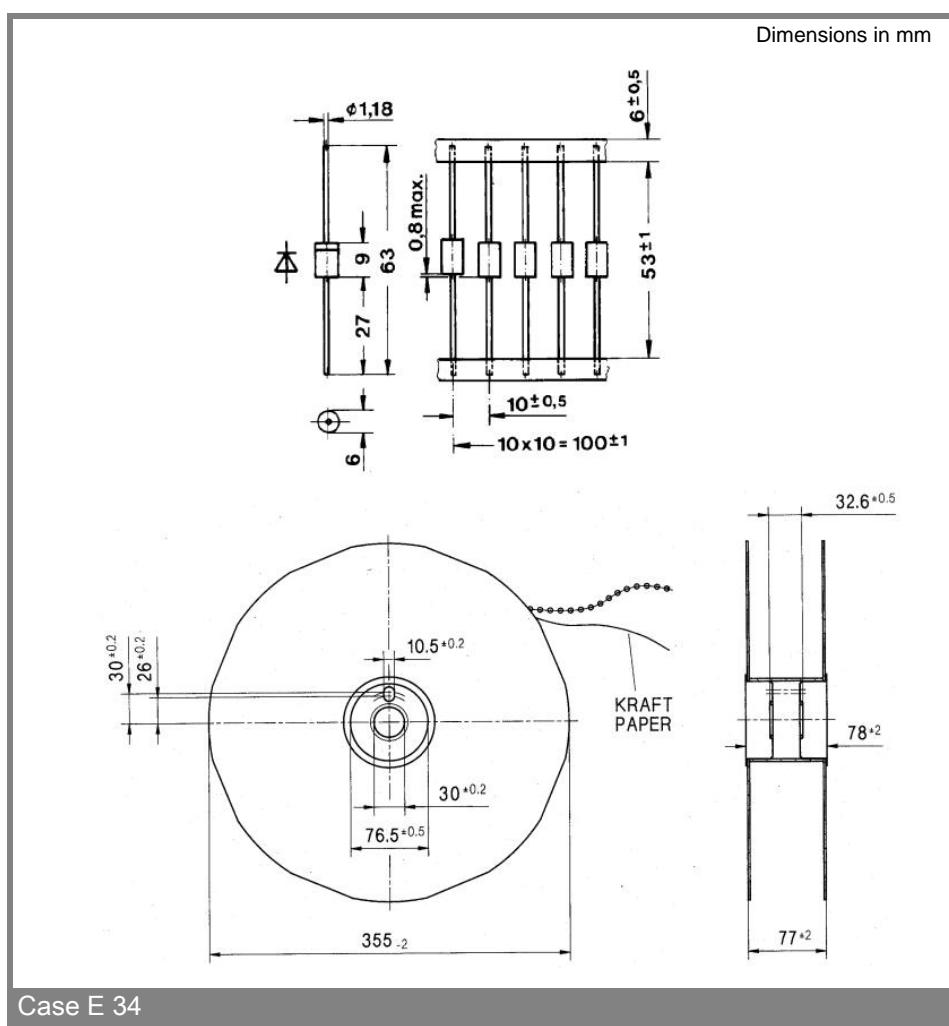


Fig. 14 Thermal resistance vs. lead length

## SK 3



Case E 34

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