



Axial Lead Diode

Rectifier Diode

SK 1

Features

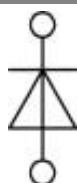
- Reverse voltages up to 1600 V
- Taped for automatic insertion
- Available with formed leads on request
- Plastic material used carries Underwriter Laboratories flammability classification 94V-0

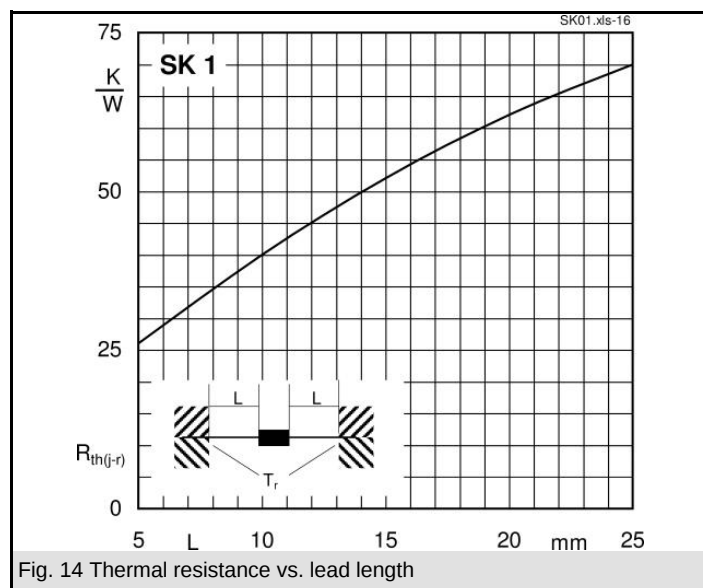
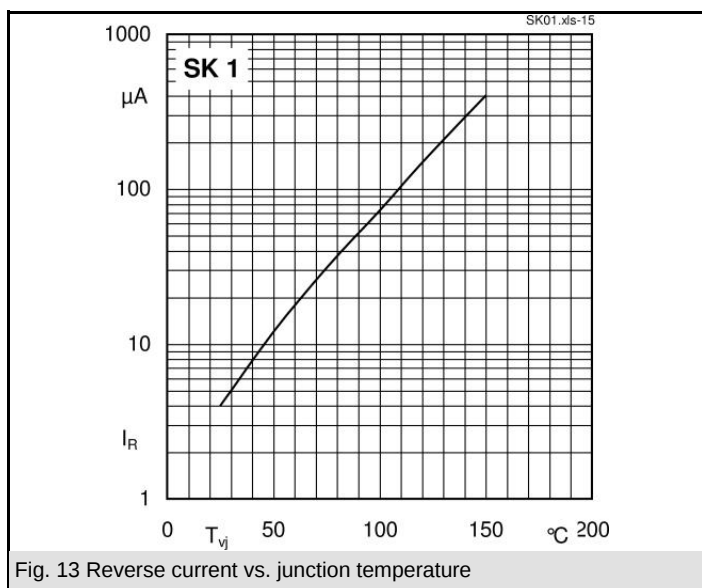
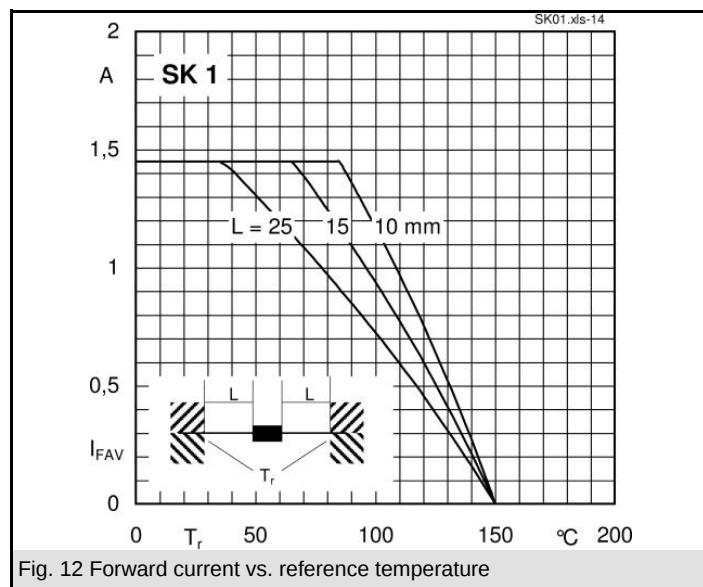
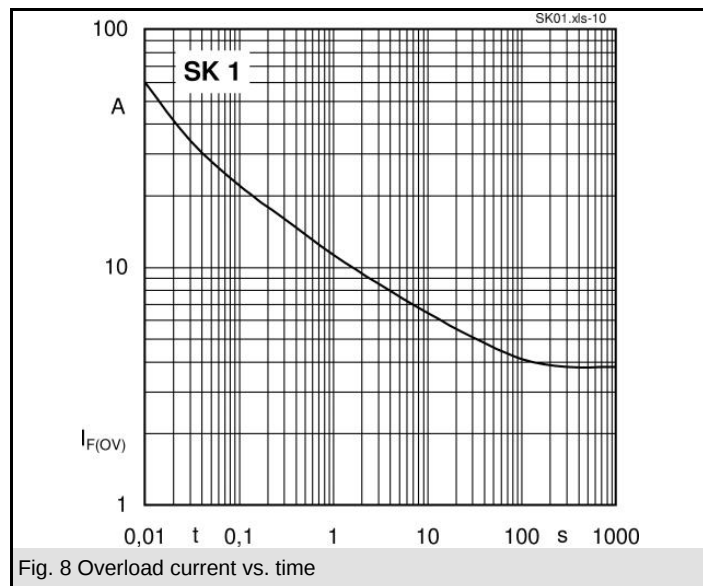
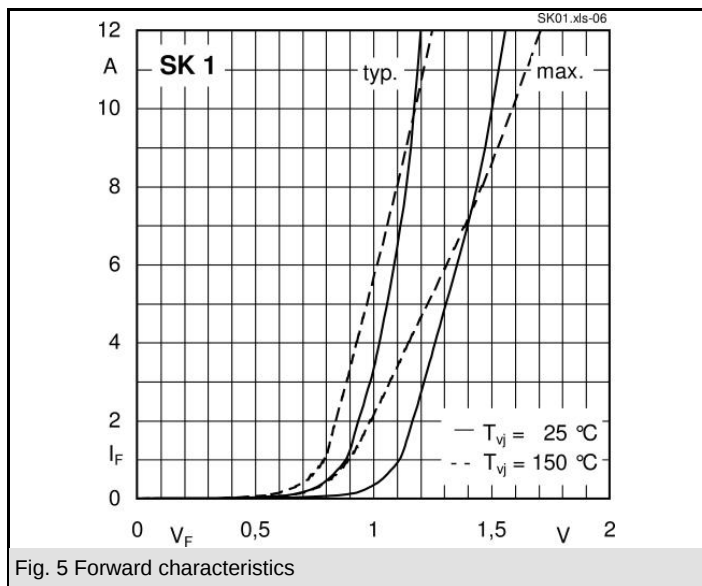
Typical Applications

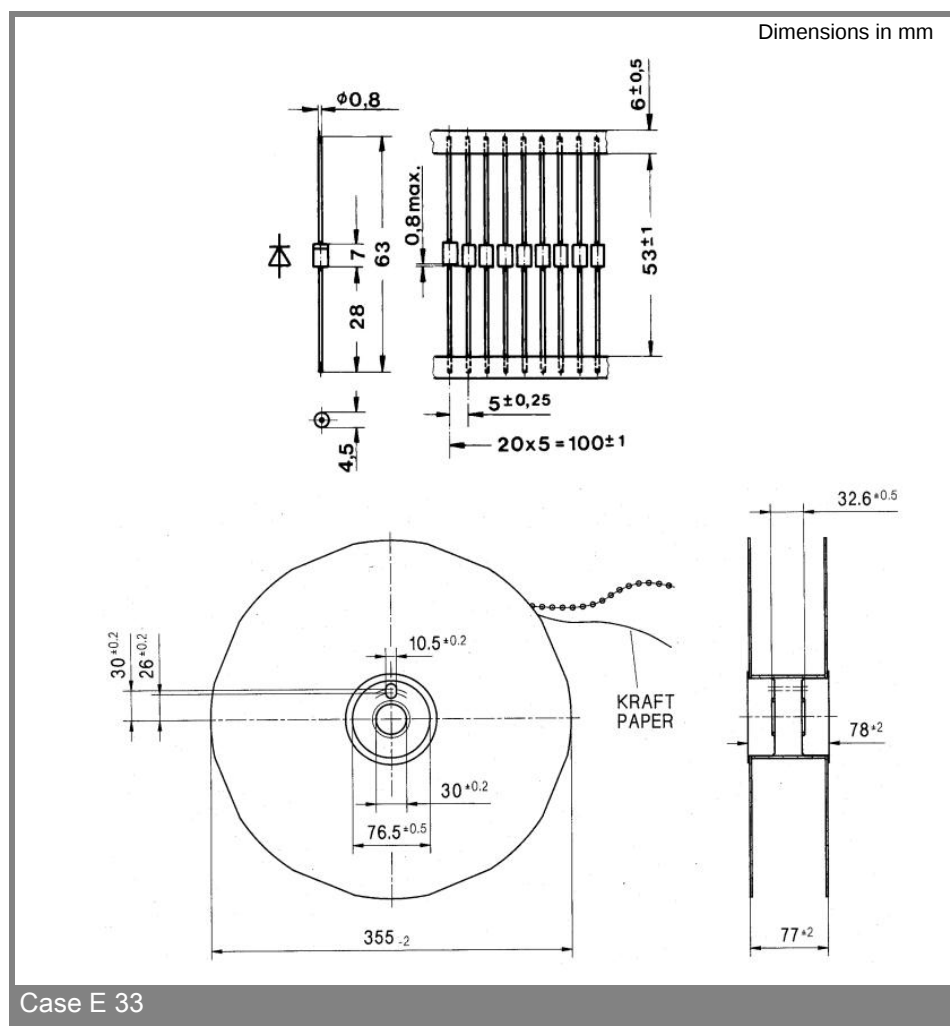
- All-purpose rectifier diodes

V_{RSM} V	V_{RRM} V	$I_{FRMS} = 3$ A (maximum value for continuous operation) $I_{FAV} = 1$ A (sin. 180; $T_a = 60$ °C)		
1000	1000	SK 1/10		
1200	1200	SK 1/12		
1400	1400	SK 1/14		
1600	1600	SK 1/16		

Symbol	Conditions	Values	Units
I_{FAV}	sin. 180; L = 10 mm; $T_r = 85$ (100) °C	1,45 (1,2)	A
I_{FSM}	$T_{vj} = 25$ °C; 10 ms	60	A
	$T_{vj} = 150$ °C; 10 ms	50	A
i^2t	$T_{vj} = 25$ °C; 8,3 ... 10 ms	18	A²s
	$T_{vj} = 150$ °C; 8,3 ... 10 ms	12,5	A²s
V_F	$T_{vj} = 25$ °C; $I_F = 10$ A	max. 1,5	V
$V_{(TO)}$	$T_{vj} = 150$ °C	max. 0,85	V
r_T	$T_{vj} = 150$ °C	max. 75	mΩ
I_{RD}	$T_{vj} = 150$ °C; $V_{RD} = V_{RRM}$	max. 0,4	mA
Q_{rr}	$T_{vj} = 150$ °C; $-di_F/dt = 10$ A/μs; $I_F = 10$ A	10	μC
$R_{th(j-r)}$	L = 10 mm	40	K/W
$R_{th(j-a)}$	PCB 50 x 50 mm	85	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.	0,5	g
Case	3500 diodes per reel	E 33	







Case E 33

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