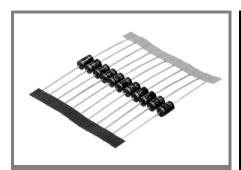
SK 1M16



Axial Lead Diode

Fast Recovery Rectifier Diode

SK 1M16

Features

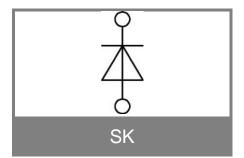
- Short and soft recovery time
- Blocking voltage up to 1600 V
- Taped for automatic insertion
- Available with formed leads on request
- Plastic material meets UL 94V-0 flammability classification

Typical Applications

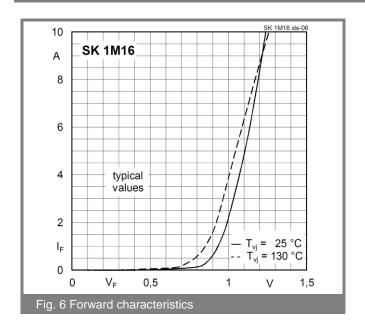
- Free-wheeling diodes
- Inverter / SMPS
- TV sets
- Snubber and clamping diodes

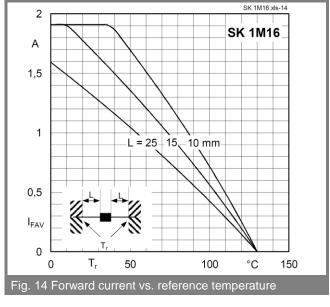
Absolute Maximum Ratings										
Symbol	Conditions		Values	Units						
Chip										
I _{FAV}	L = 10mm; sin. 180°	T _r = 63 °C	1,45	Α						
		T _r = 81 °C	1,1	Α						
I _{FRMS}	maximum value for continuous op.		3	Α						
I _{FSM}	8,3 10ms	$T_j = 25^{\circ}C$	60	Α						
		$T_j = 130$ °C	50	Α						
i²t	8,3 10ms	$T_j = 25^{\circ}C$	18	A²s						
		$T_j = 130$ °C	12,5	A²s						
V_{RSM}			1600	V						
V_{RRM}			1600	V						
Tj			-40 130	°C						
Case										
T _{stg}			-40 130	°C						
T _{sold}	Max. 10s; L > 9mm		250	°C						
V _{isol}			-	V						

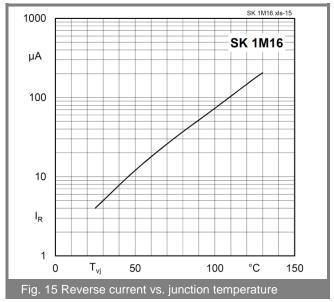
Characteristics								
Symbol	Conditions	min.	typ.	max.	Units			
Chip								
V _F	$T_{vj} = 25^{\circ}C; I_F = 10A$			1,5	V			
$V_{(TO)}$	T _{vj} = 130°C			0,95	V			
r _T	$T_{vj} = 130$ °C			55	mΩ			
I_{RD}	$T_{vj} = 25$ °C, $V_{RD} = V_{RRM}$			4	μΑ			
t _{rr}	$T_{vj} = 25$ °C, $I_F = I_R = 1$ A; $I_{RM} = 0.25$ A			1,3	μs			
$R_{th(j-r)}$	L = 10mm			40	K/W			
R _{th(j-a)}	PCB 50 x 50			85	K/W			
Case								
а				5*9,81	m/s²			
W				0,6	g			
Case	3500 diodes per reel		E 33					

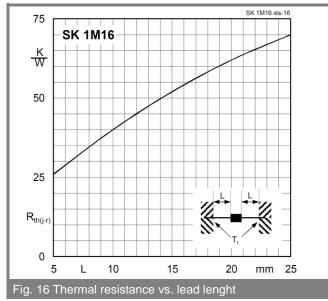


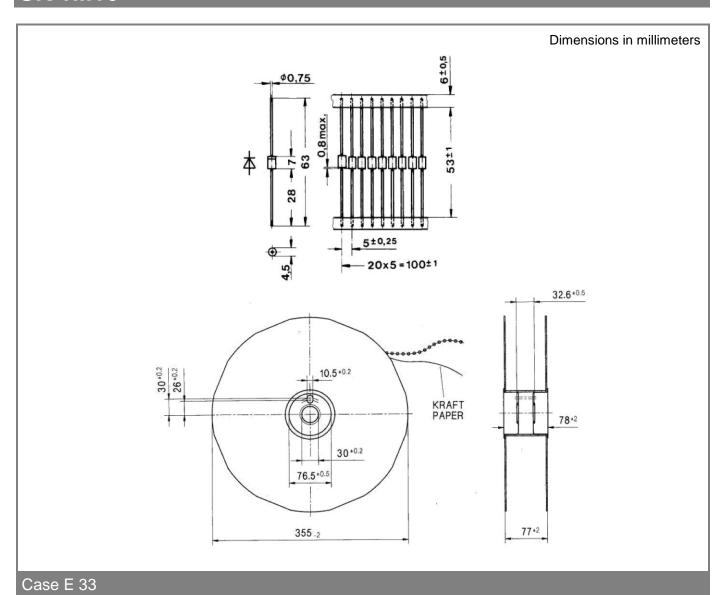
SK 1M16











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