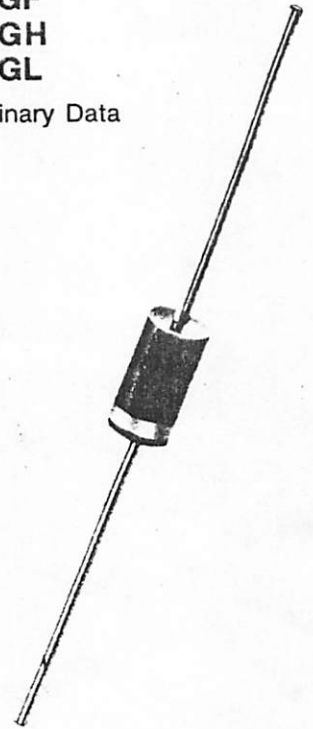


Fast Recovery Rectifier Diodes

SK 1 GF
SK 1 GH
SK 1 GL

Preliminary Data



V _{RSM} V _{RRM}	I _{FRMS} (maximum values for continuous operation)		
	2,7 A	2,7 A	2,5 A
V	I _{FAV} (sin. 180; T _{ref} = 105 °C, L = 10 mm)		
	1,2 A	1,2 A	1,1 A
100	SK 1GF 01	SK 1GH 01	SK 1GL 01
200	SK 1GF 02	SK 1GH 02	SK 1GL 02
400	SK 1GF 04	SK 1GH 04	SK 1GL 04
600	SK 1GF 06	SK 1GH 06	SK 1GL 06
800		SK 1GH 08	SK 1GL 08
1000			SK 1GL 10

Symbol	Conditions	SK 1GF	SK 1GH	SK 1GL	Units
I _{FAV}	T _{amb} = 45 °C; sin. 180; R _{thja} = 85 °C/W	1,15	1,15	1,1	A
I _{FSM}	T _{vj} = 25 °C; t = 10 ms T _{vj} = 150 °C; t = 10 ms t = 8,3 ms		53 39 34		A A A
i ² t	T _{vj} = 25 °C T _{vj} = 150 °C		14 7,5		A ² s A ² s
Q _{rr} I _{RM} t _{rr}	$\left\{ \begin{array}{l} T_{vj} = 150\text{ °C}; -\frac{di_F}{dt} = 100 \frac{\text{A}}{\mu\text{s}}; \\ I_{FM} = 20\text{ A}; V_R = 100\text{ V}; \text{max.} \end{array} \right.$ T _{vj} = 25 °C; I _{FM} = 0,5 A; I _{RM} = 1 A; i _{rr} = 0,25 A; max.	2,2 80	5 150	10 300	μC ns
I _R V _F V _(TO) r _T	T _{vj} = 25 °C; V _R = V _{RRM} ; max. T _{vj} = 25 °C; I _F = 1 A; max. T _{vj} = 150 °C T _{vj} = 150 °C	4 1,15 0,9 110	4 1,15 0,9 110	4 1,2 1,0 100	μA V V mΩ
R _{thjr} R _{thja} T _{vj} T _{stg} T _{solder}	L = 10 mm p.c.b. 50 x 50 mm max. 10 s, L = 9 mm		40 85 -40 ... + 150 °C -40 ... + 150 °C 280		°C/W °C/W °C °C °C
a w	approx.		5 · 9,81 m/s ² 0,5 g		m/s ² g
Case					

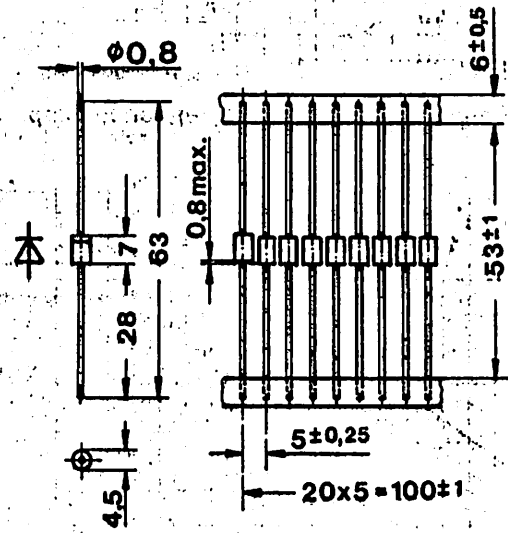
Features

- Axial lead diodes, taped
- Glass passivated silicon chip
- Void-free moulded plastic acc. to Underwriters Laboratory (UL) flammability classification 94 V-0
- Polarity: Band denotes cathode terminal
- Peak inverse voltage up to 1000 V
- High surge current
- Available with formed leads on request

Typical Applications

- Switched mode power supplies
- TV sets
- Inverters
- Ultrasonic generators
- For printed circuit board mounting

SK 1 GF
SK 1 GH
SK 1 GL



P.C.B. for $R_{thja} = 85^\circ\text{C/W}$

