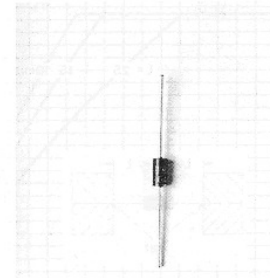


V_{RSM} V_{RRM}	I_{FRMS} (maximum values for continuous operation) 6,7 A
V	I_{FAV} (sin. 180, $T_{ref} = 105\text{ °C}$, $L = 10\text{ mm}$) 4,3 A
100	SK 3 G 01
200	SK 3 G 02
400	SK 3 G 04
600	SK 3 G 06
800	SK 3 G 08
1000	SK 3 G 10
1200	SK 3 G 12

Rectifier Diodes

SK 3 G

Preliminary Data



Symbol	Conditions	SK 3 G
I_{FAV}	$T_{ref} = 130\text{ °C}$; $L = 10\text{ mm}$; sin. 180 $T_{amb} = 45\text{ °C}$; sin. 180; $R_{thja} = 60\text{ °C/W}$	3 A 2,1 A
I_{FSM}	$T_{vj} = 25\text{ °C}$; 10 ms $T_{vj} = 175\text{ °C}$; 10 ms	200 A 150 A
i^2t	$T_{vj} = 25\text{ °C}$; 8,3... 10 ms $T_{vj} = 175\text{ °C}$; 8,3... 10 ms	200 A ² s 110 A ² s
Q_{rr}	$T_{vj} = 150\text{ °C}$; $-\frac{di_F}{dt} = 10\frac{\text{A}}{\mu\text{s}}$; $I_F = 10\text{ A}$; $V_R = 100\text{ V}$; typ.	25 μC
I_R	$T_{vj} = 25\text{ °C}$; $V_R = V_{RRM}$ $T_{vj} = 150\text{ °C}$; $V_R = V_{RRM}$	4 μA 0,25 mA
V_F	$T_{vj} = 25\text{ °C}$; $I_F = 3\text{ A}$; max	1,1 V
$V_{(TO)}$	$T_{vj} = 175\text{ °C}$	0,85 V
r_T	$T_{vj} = 175\text{ °C}$	30 m Ω
C_j	$V_R = 0$; $f = 1\text{ MHz}$; typ.	100 pF
R_{thjr}	$L = 10\text{ mm}$	14 °C/W
R_{thja}	p.c.b. 50 x 50 mm	60 °C/W
T_{vj}		- 40... + 175 °C
T_{stg}		- 55... + 175 °C
T_{solder}	max. 10 s, $L = 9\text{ mm}$	280 °C
a		5 · 9,81 m/s ²
w	approx.	1 g
Case		E 29

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 1200 V
- High surge current of 200 A
- Available with formed leads on request

Typical Applications

- General purpose rectifier diodes for high quality requirement
- For printed circuit board mounting

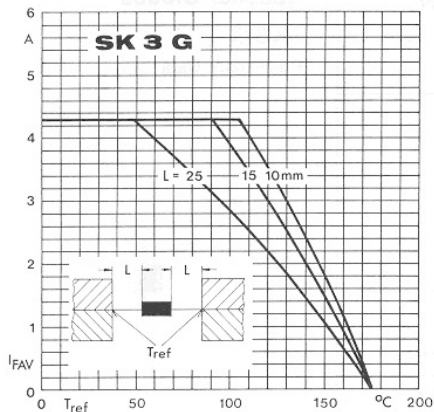


Fig. 14 Rated forward current vs. reference temp.

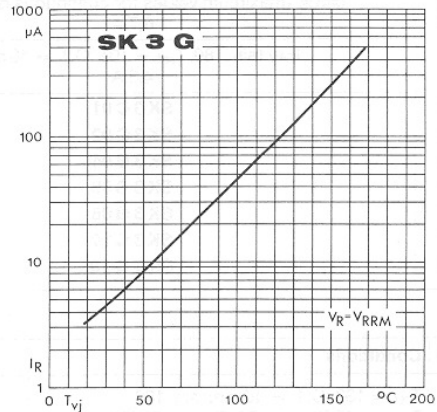


Fig. 15 Reverse current vs. virt. junction temp.

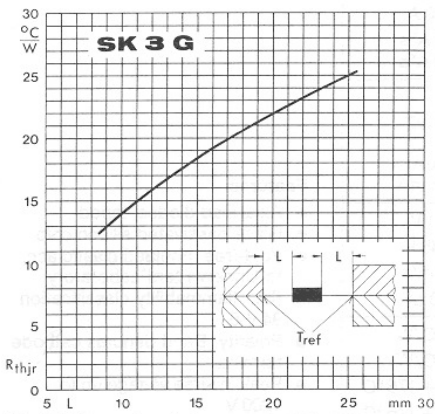


Fig. 16 Thermal resistance vs. lead length

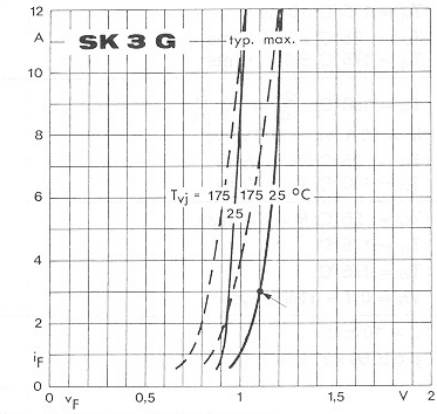


Fig. 6 Forward characteristics

