

# RKS151KK

## Silicon Epitaxial Planar Diode for UHF/VHF tuner Band Switch

REJ03G1295-0100

Rev.1.00

Nov 07, 2005

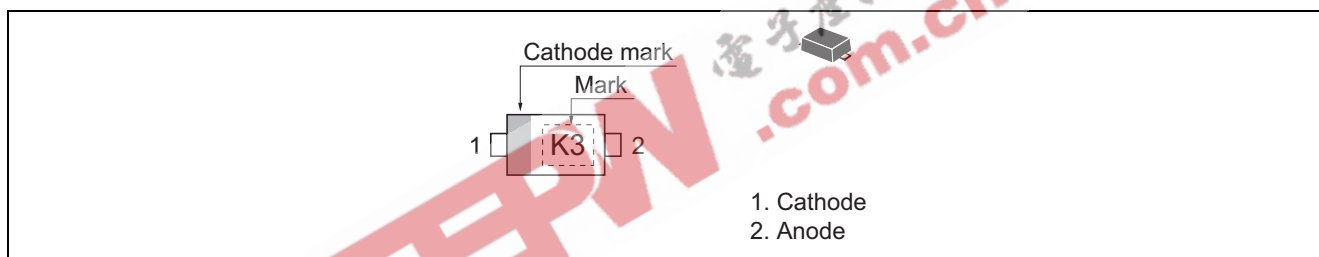
### Features

- Low capacitance. ( $C = 0.8 \text{ pF max}$ )
- Low forward resistance. ( $r_f = 0.7 \Omega \text{ max}$ )
- Super small Flat Lead Package (SFP) is suitable for surface mount design.

### Ordering Information

Type No.	Laser Mark	Package Name	Package Code (Previous Code)
RKS151KK	K3	SFP	PUSF0002ZB-A (SFP)

### Pin Arrangement



## Absolute Maximum Ratings

(Ta = 25°C)

Item	Symbol	Value	Unit
Reverse voltage	$V_R$	35	V
Power dissipation	$P_d$	150	mW
Junction temperature	$T_j$	125	°C
Storage temperature	$T_{stg}$	-55 to +125	°C

## Electrical Characteristics

(Ta = 25°C)

Item	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse current	$I_R$	—	—	50	nA	$V_R = 25\text{ V}$
Forward voltage	$V_F$	—	—	1.0	V	$I_F = 10\text{ mA}$
Capacitance	$C$	—	—	0.8	pF	$V_R = 6\text{ V}$ , $f = 1\text{ MHz}$
Forward resistance	$r_f$	—	—	0.7	$\Omega$	$I_F = 2\text{ mA}$ , $f = 100\text{ MHz}$

Note: 1. For SFP package, the material of lead is exposed for cutting plane. There for, soldering nature of lead tip part is considered as unquestioned. Please kindly consider soldering nature.

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## Main Characteristic

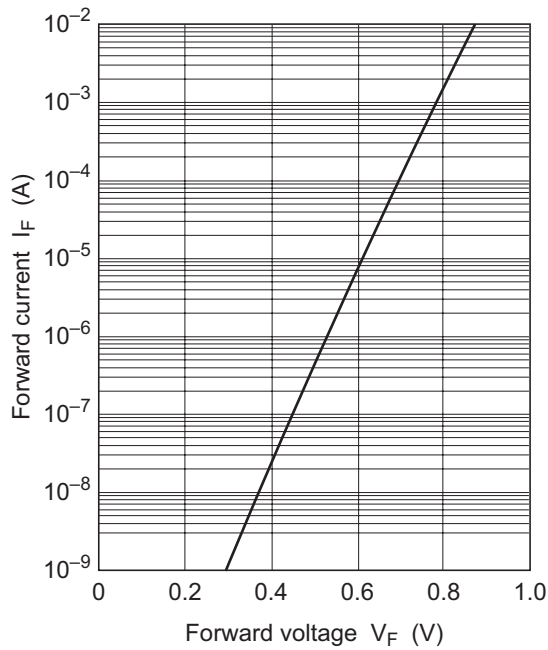


Fig.1 Forward current vs. Forward voltage

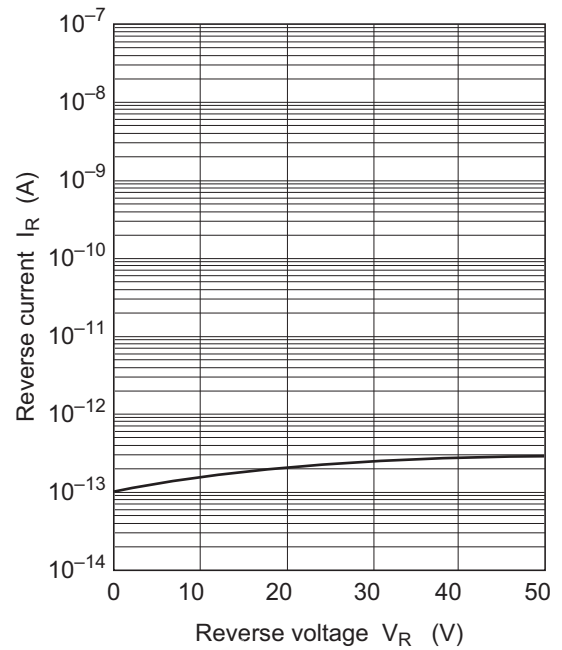


Fig.2 Reverse current vs. Reverse voltage

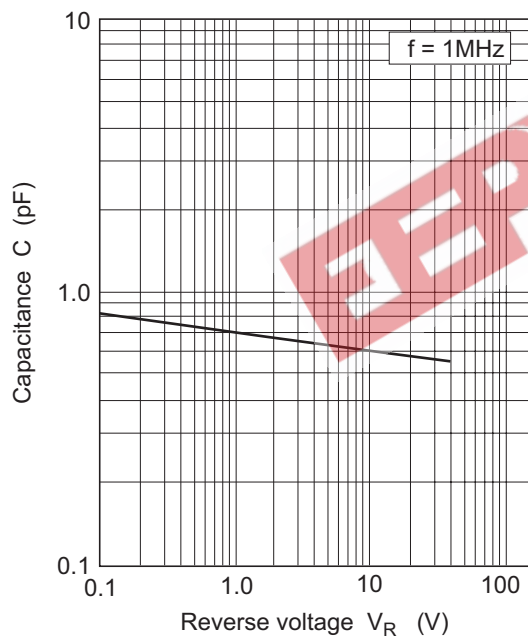


Fig.3 Capacitance vs. Reverse voltage

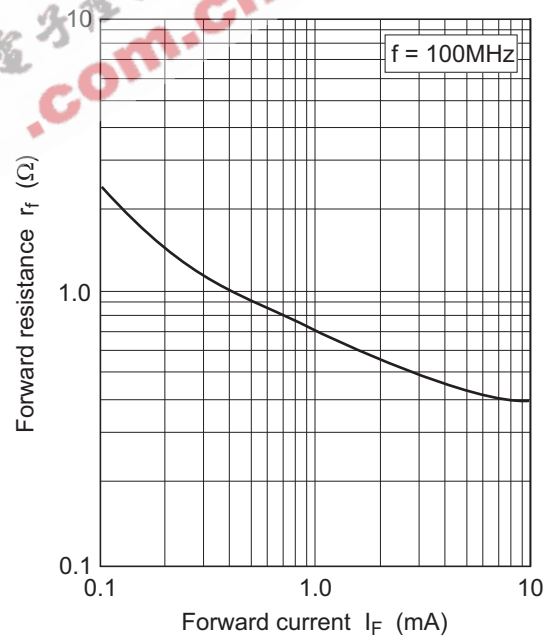
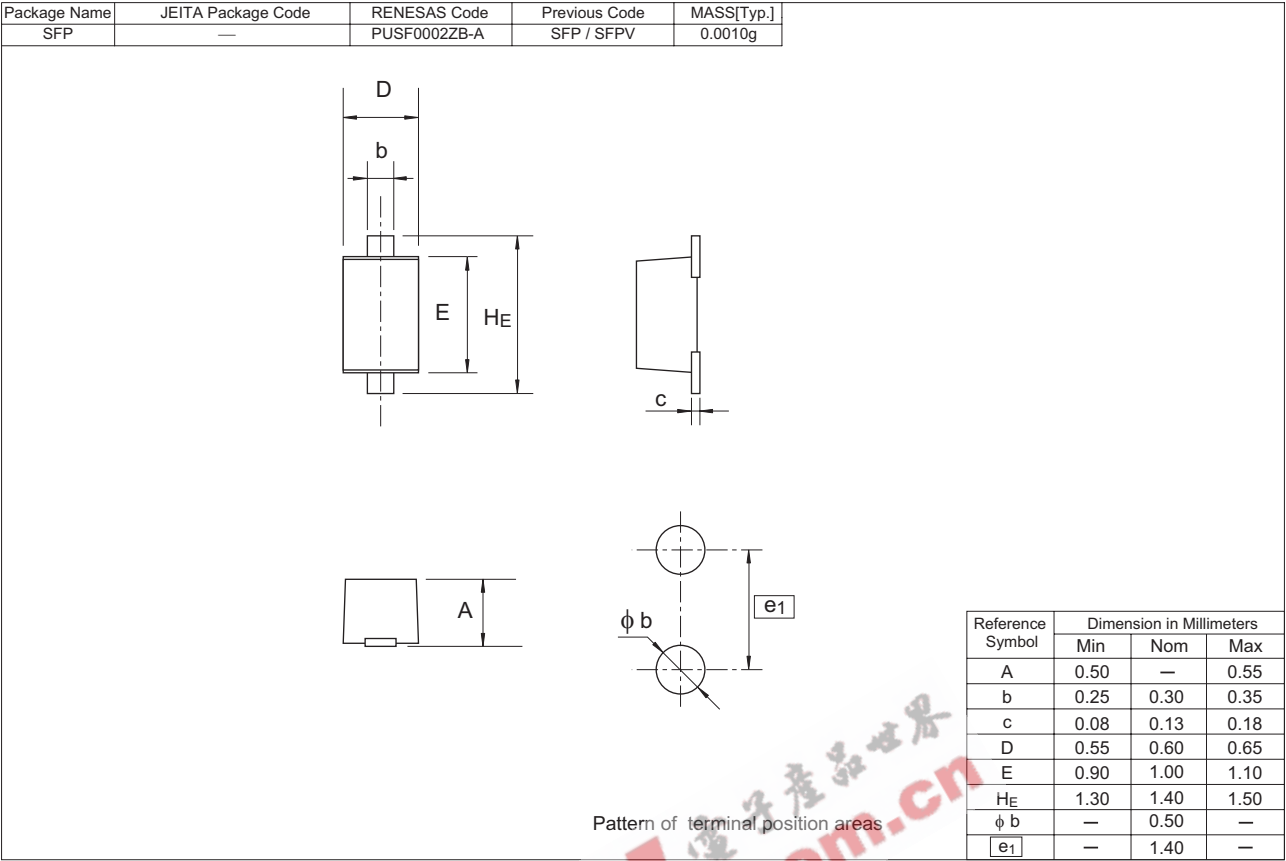


Fig.4 Forward resistance vs. Forward current

Package Dimensions



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