

RKP301KL

Silicon Epitaxial Planar Pin Diode for Antenna Switching

REJ03G1688-0100

Rev.1.00

May 30, 2008

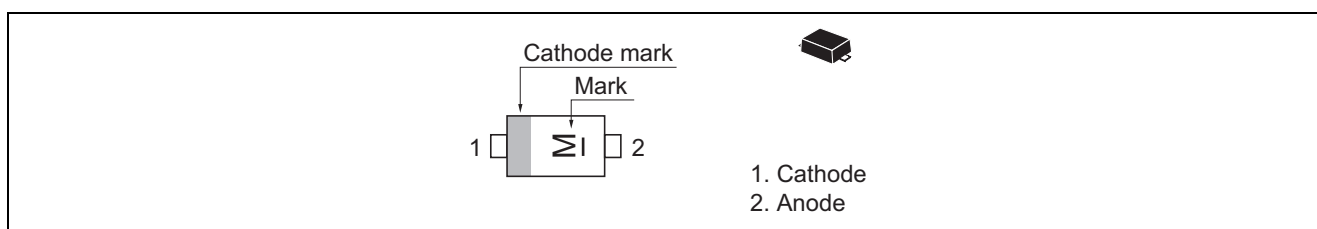
Features

- Low capacitance. ($C = 0.30 \text{ pF max}$)
- Low forward resistance. ($r_f = 2.5 \Omega \text{ max}$)
- Extremely small Flat Lead Package (EFP) is suitable for surface mount design.

Ordering Information

Part No.	Laser Mark	Package Name	Package Code
RKP301KL	M	EFP	PXSF0002ZA-A

Pin Arrangement



Absolute Maximum Ratings

(Ta = 25°C)

Item	Symbol	Ratings	Unit
Reverse voltage	V_R	30	V
Forward current	I_F	100	mA
Power dissipation	P_d	100	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
Forward voltage	V_F	—	—	1.0	V	$I_F = 10 \text{ mA}$
Reverse current	I_R	—	—	100	nA	$V_R = 30 \text{ V}$
Capacitance	C	—	—	0.30	pF	$V_R = 20 \text{ V}$, $f = 1 \text{ MHz}$
Forward resistance	r_f	—	—	2.5	Ω	$I_F = 10 \text{ mA}$, $f = 100 \text{ MHz}$

Note: For EFP 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.

Main Characteristic

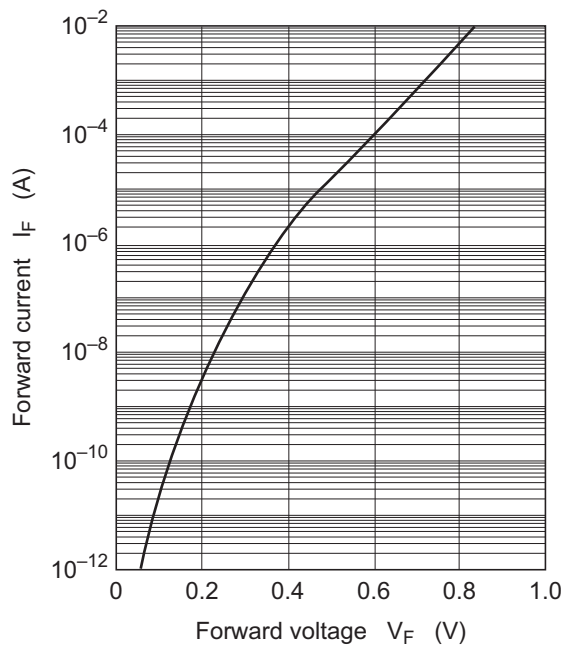


Fig.1 Forward current vs. Forward voltage

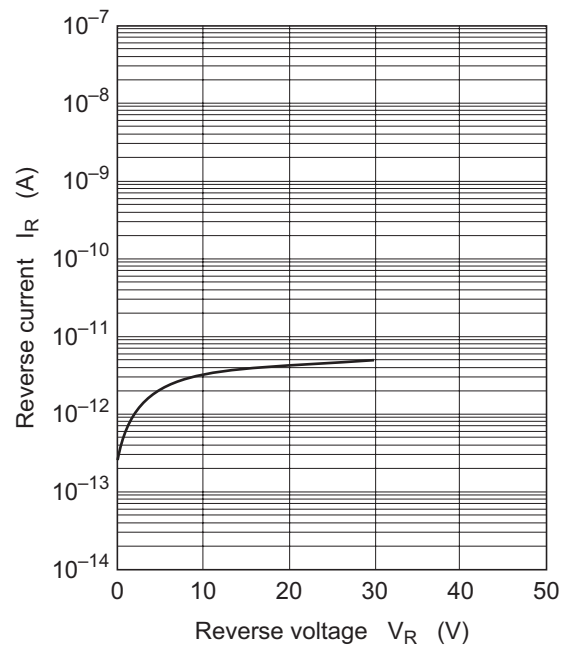


Fig.2 Reverse current vs. Reverse voltage

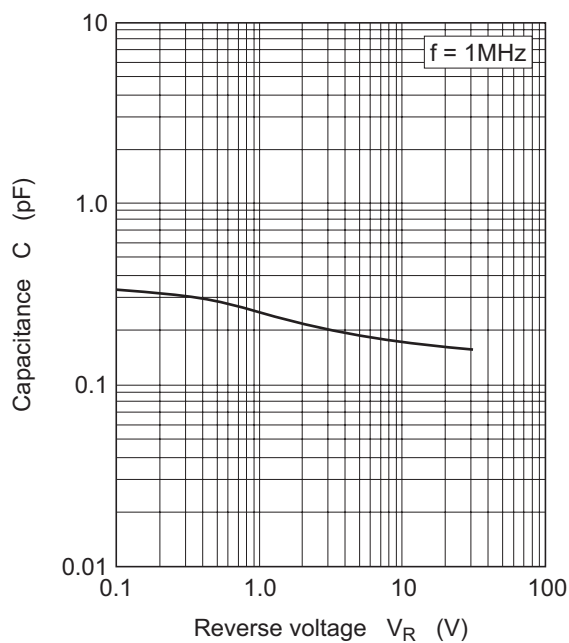


Fig.3 Capacitance vs. Reverse voltage

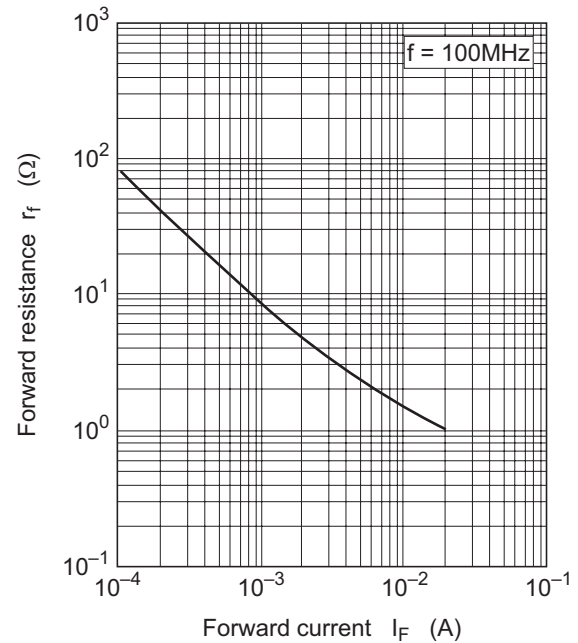
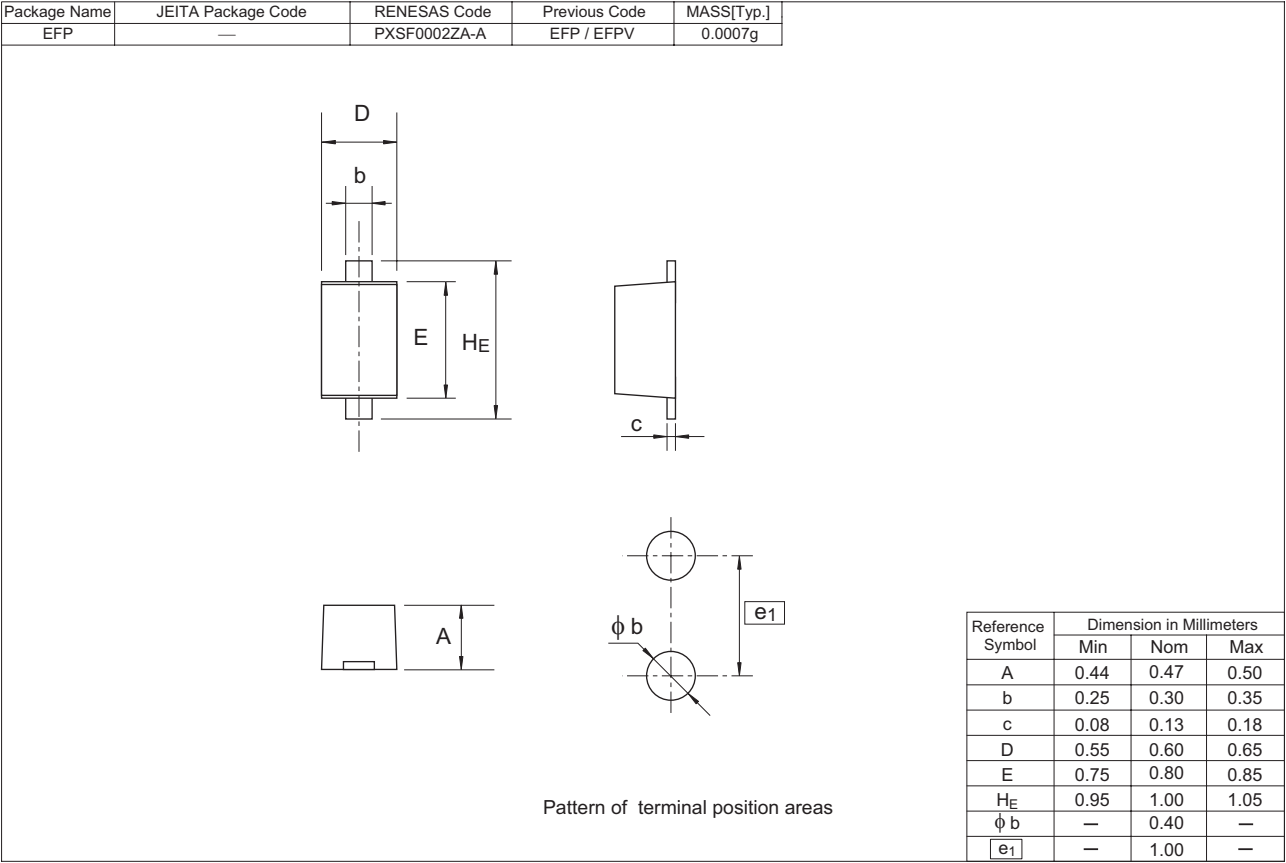


Fig.4 Forward resistance vs. Forward current

Package Dimensions



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