

RKV651KL

Variable Capacitance Diode for FM tuner IC

REJ03G1290-0100

Rev.1.00

Oct 14, 2005

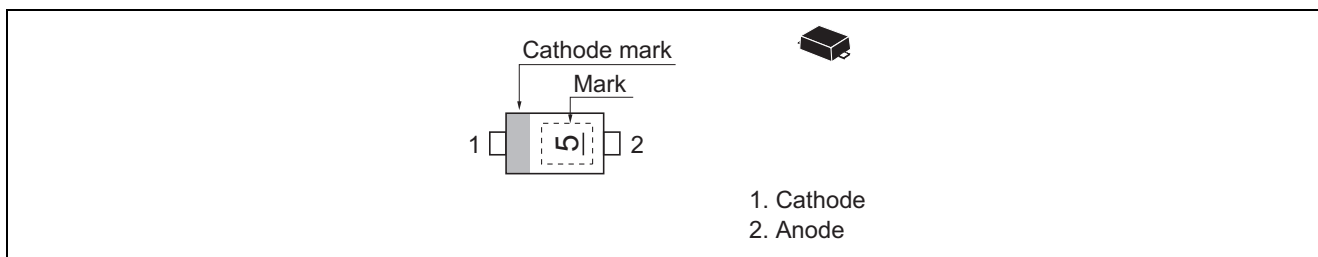
Features

- High capacitance ratio. ($n = 2.90$ min)
- Extremely small Flat Lead Package (EFP) is suitable for surface mount design.

Ordering Information

Type No.	Laser Mark	Package Name	Package Code (Previous Code)
RKV651KL	5	EFP	PXSF0002ZA-A (EFP)

Pin Arrangement



Absolute Maximum Ratings

(Ta = 25°C)

Item	Symbol	Value	Unit
Reverse voltage	V_R	15	V
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_{R1}	—	—	10	nA	$V_R = 10\text{ V}$
	I_{R2}	—	—	100		$V_R = 10\text{ V}, T_a = 60^\circ\text{C}$
Capacitance	$C_{0.2}$	29.5	—	33.0	pF	$V_R = 0.2\text{ V}, f = 1\text{ MHz}$
	$C_{2.3}$	7.80	—	10.7		$V_R = 2.3\text{ V}, f = 1\text{ MHz}$
Capacitance ratio	n	2.90	—	4.10	—	$C_{0.2} / C_{2.3}$
Series resistance	r_s	—	—	0.6	Ω	$V_R = 1\text{ V}, f = 470\text{ MHz}$

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

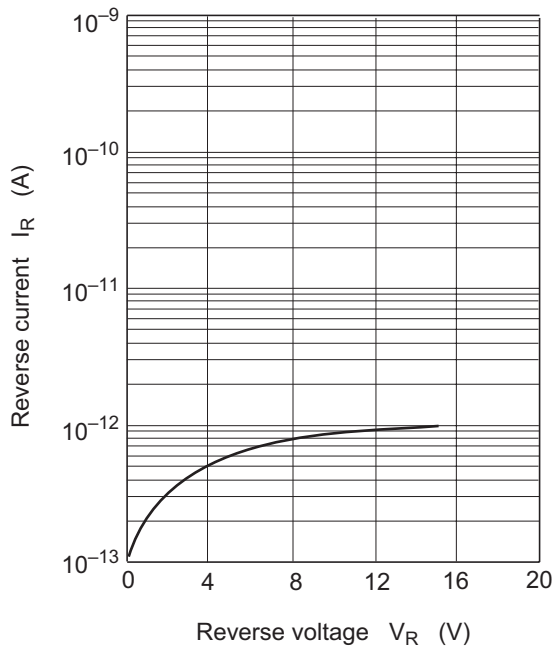


Fig.1 Reverse current vs. Reverse voltage

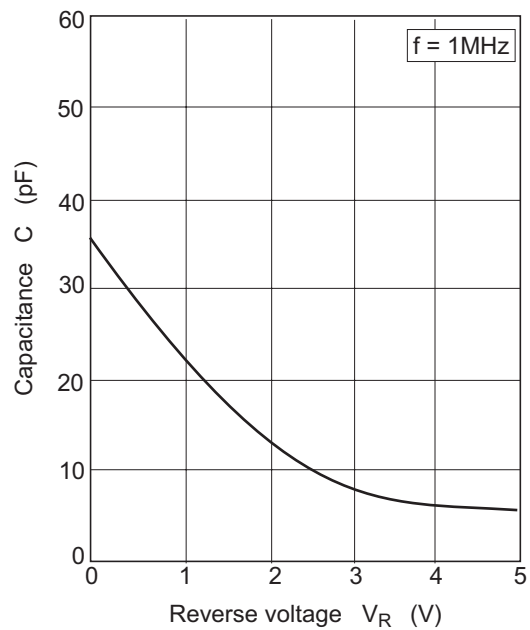


Fig.2 Capacitance vs. Reverse voltage

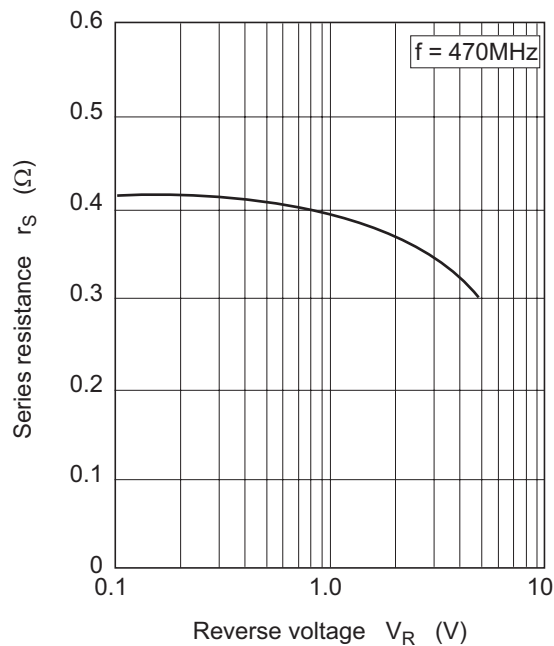


Fig.3 Series resistance vs. Reverse voltage

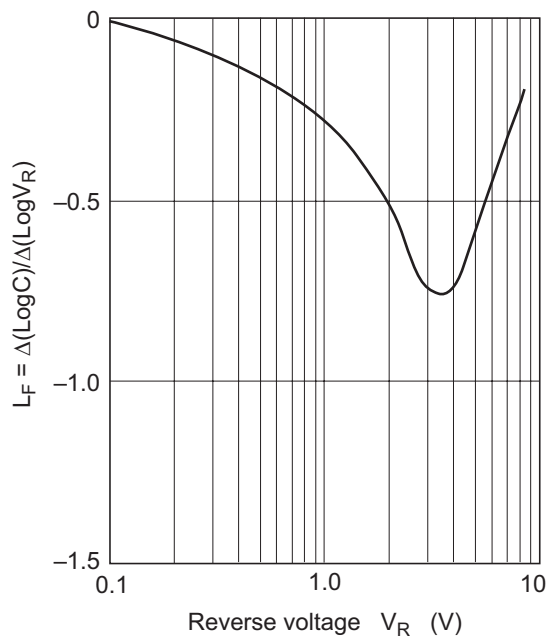
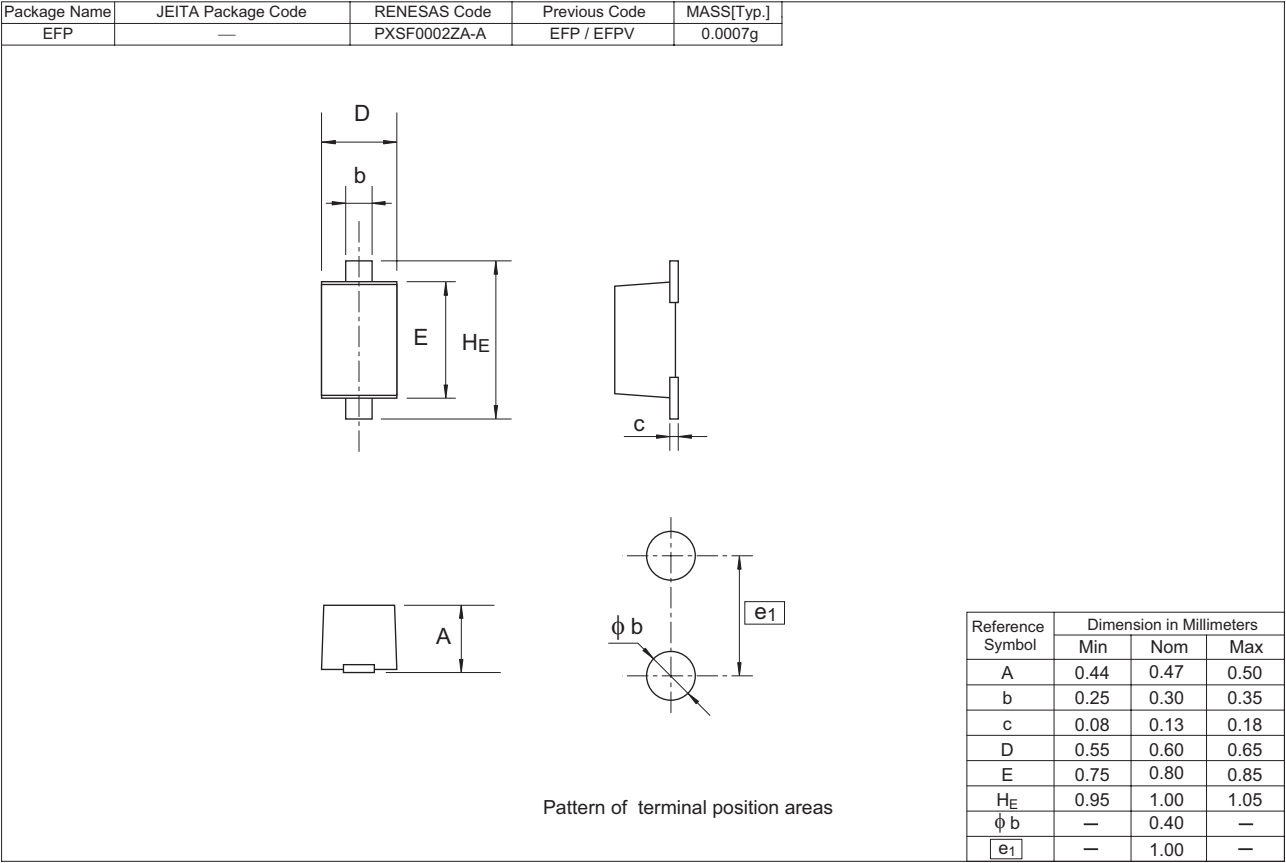


Fig.4 Linearity factor vs. Reverse voltage

Package Dimensions



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