

RKP301WKQE

Silicon Epitaxial Planar Pin Diode for Antenna Switching

REJ03G1689-0100

Rev.1.00

May 30, 2008

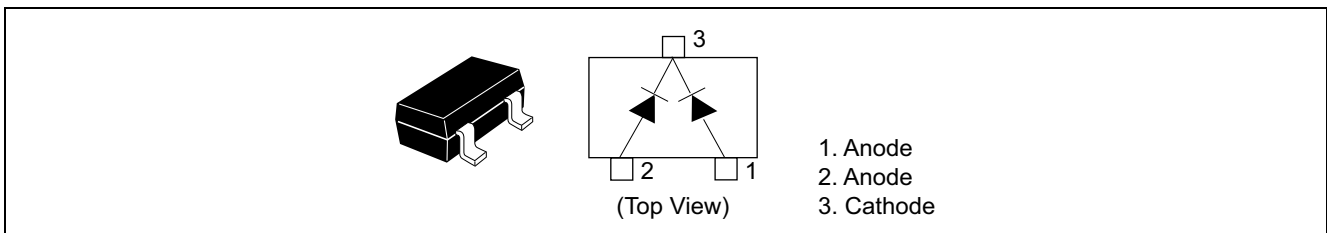
Features

- Low capacitance. ($C = 0.30$ pF max)
- Low forward resistance. ($r_f = 2.5 \Omega$ max)
- CMLPAK Package is suitable for high density surface mounting and high speed assembly.

Ordering Information

Part No.	Laser Mark	Package Name	Package Code
RKP301WKQE	P7	CMLPAK	PTSP0003ZB-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^*	200	mW
Junction temperature	T_j	125	°C
Storage temperature	T_{stg}	-55 to +125	°C

Note: Per one device 100 mW.

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	$I_F = 10 \text{ mA}, f = 100 \text{ MHz}$

Main Characteristic

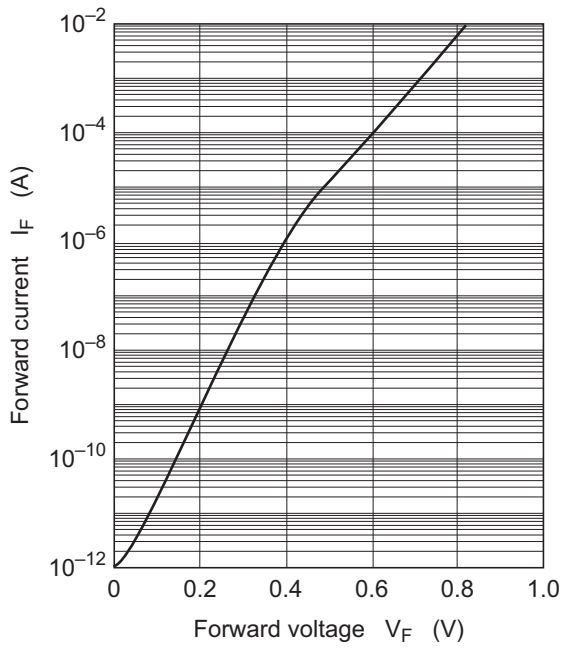


Fig.1 Forward current vs. Forward voltage

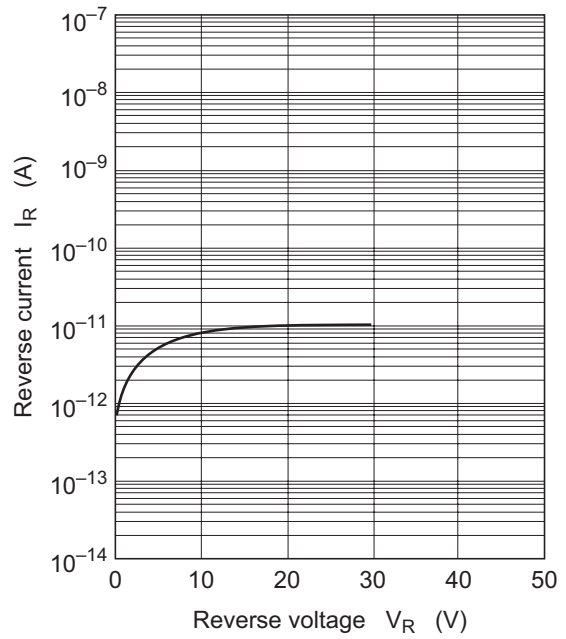


Fig.2 Reverse current vs. Reverse voltage

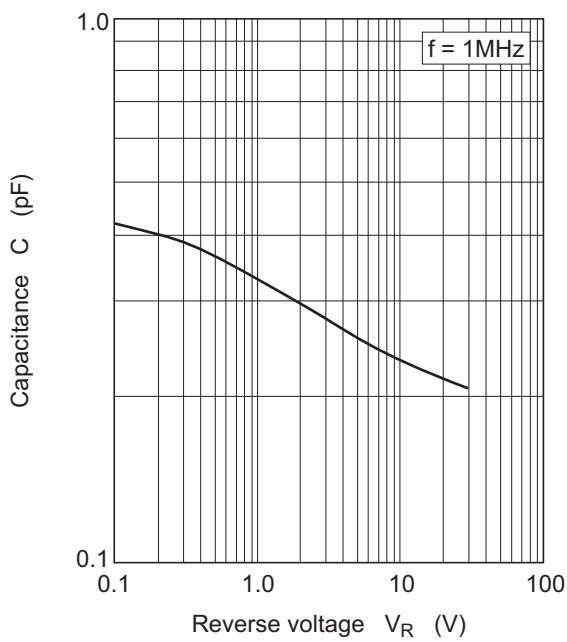


Fig.3 Capacitance vs. Reverse voltage

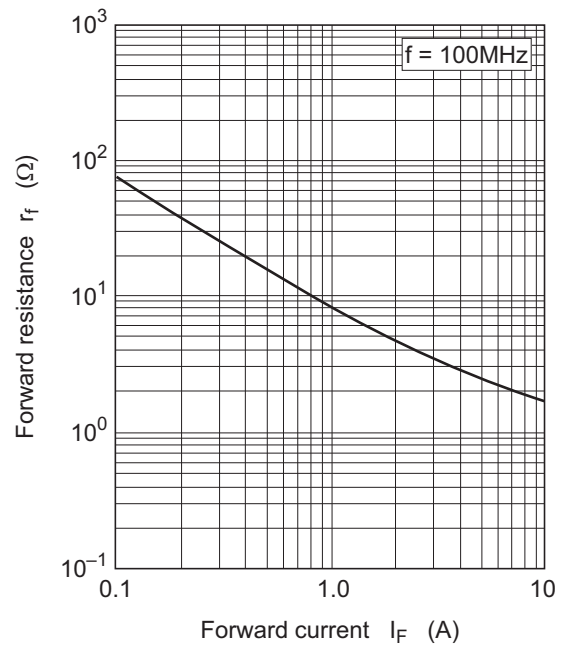
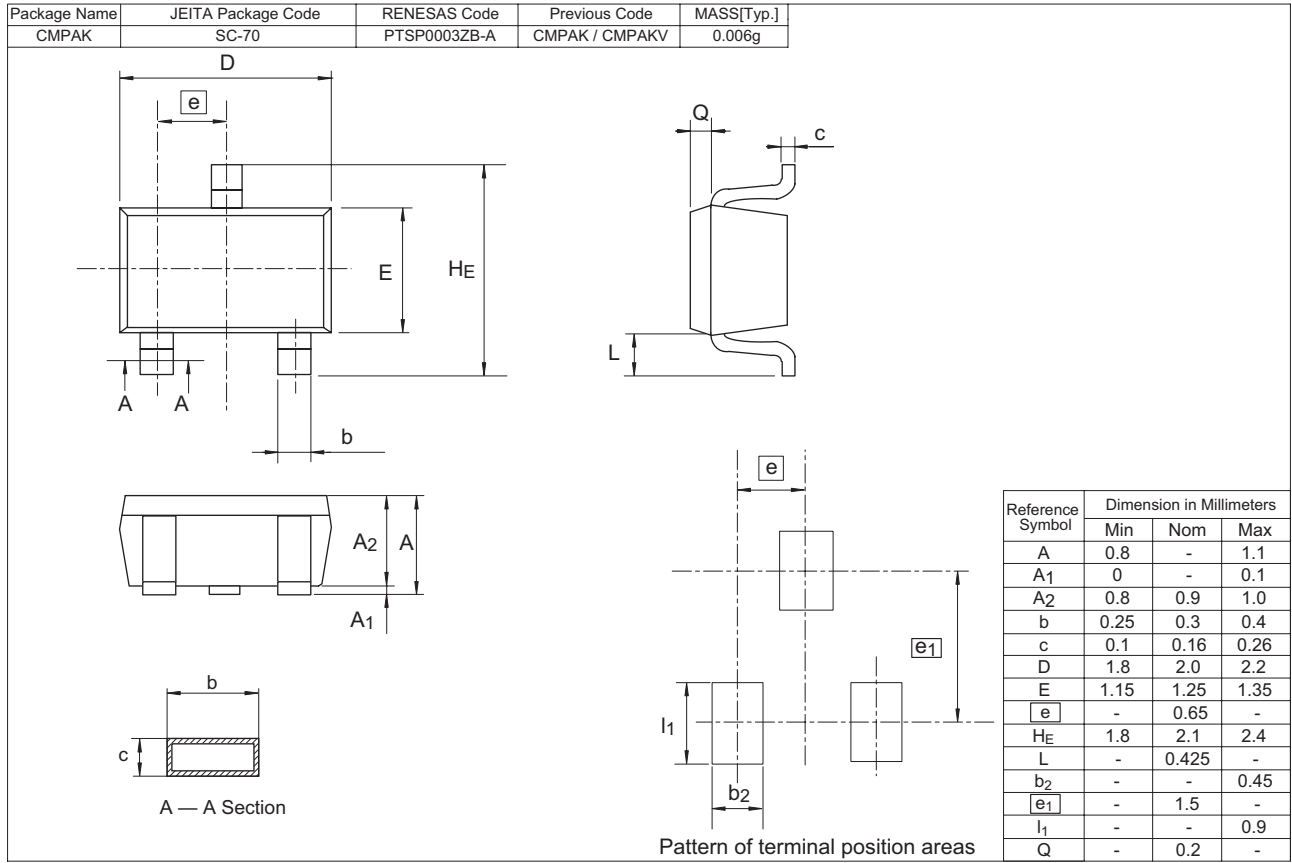


Fig.4 Forward resistance vs. Forward current

Package Dimensions



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April 1st, 2010
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