

RKP300WKQE

Silicon Epitaxial Planar Pin Diode for Antenna Switching

REJ03G1730-0100

Rev.1.00

Aug 21, 2008

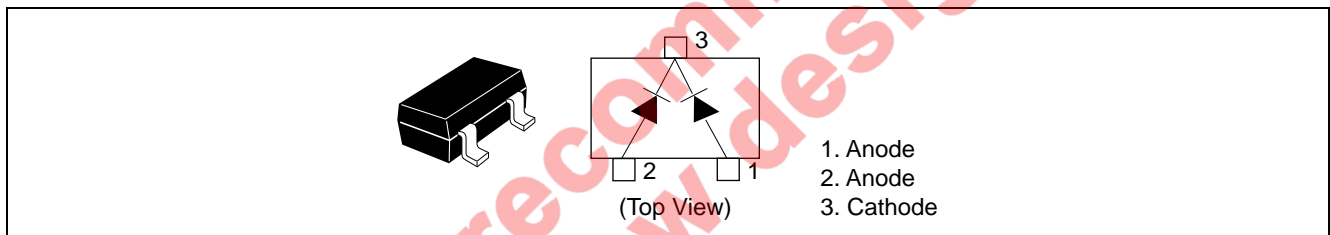
Features

- Suitable for an antenna switches of wireless LAN and a cordless telephone.
- Super -Low capacitance.(C = 0.25 pF max)
- Low forward resistance. (rf = 3.7 Ω max)
- CMPAK Package is suitable for high density surface mounting and high speed assembly.

Ordering Information

Part No.	Laser Mark	Package Name	Package Code
RKP300WKQE	P8	CMPAK	PTSP0003ZB-A

Pin Arrangement



Absolute Maximum Ratings

(Ta = 25°C)

Item	Symbol	Value	Unit
Reverse voltage	V_R	30	V
Forward current	I_F	50	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
Reverse current	I_R	—	—	100	nA	$V_R = 30\text{ V}$
Forward voltage	V_F	—	—	1.0	V	$I_F = 10\text{ mA}$
Capacitance	C	—	—	0.25	pF	$V_R = 20\text{ V}$, $f = 1\text{ MHz}$
Forward resistance	r_f	—	—	3.7	Ω	$I_F = 10\text{ mA}$, $f = 100\text{ MHz}$

Not recommended
for new design

Main Characteristics

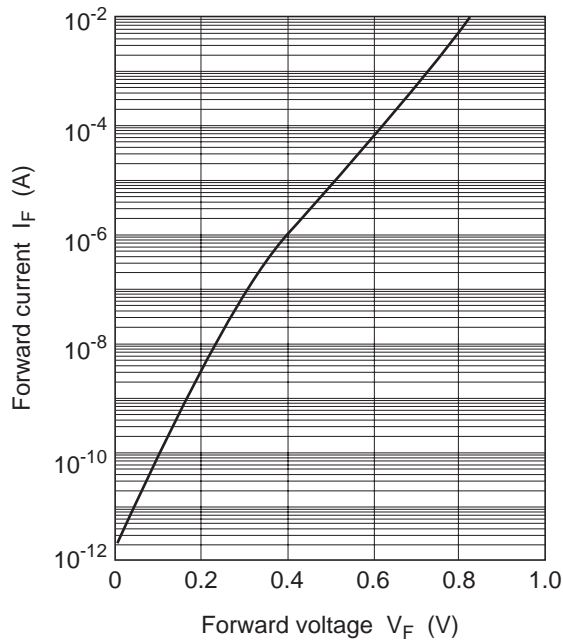


Fig.1 Forward current vs. Forward voltage

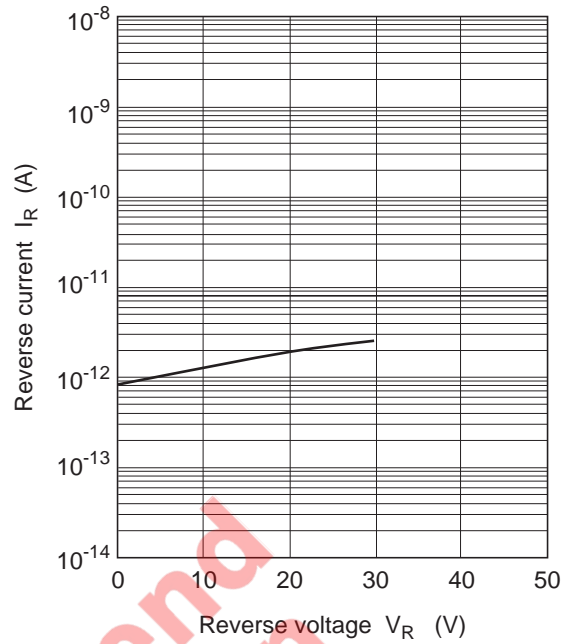


Fig.2 Reverse current vs. Reverse voltage

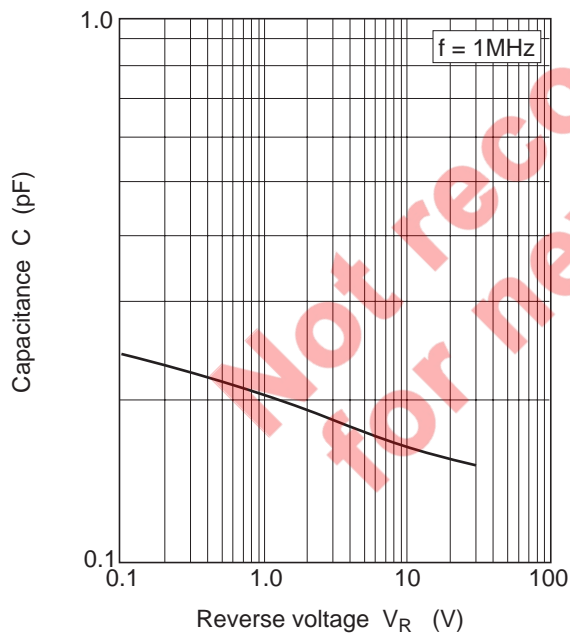


Fig.3 Capacitance vs. Reverse voltage

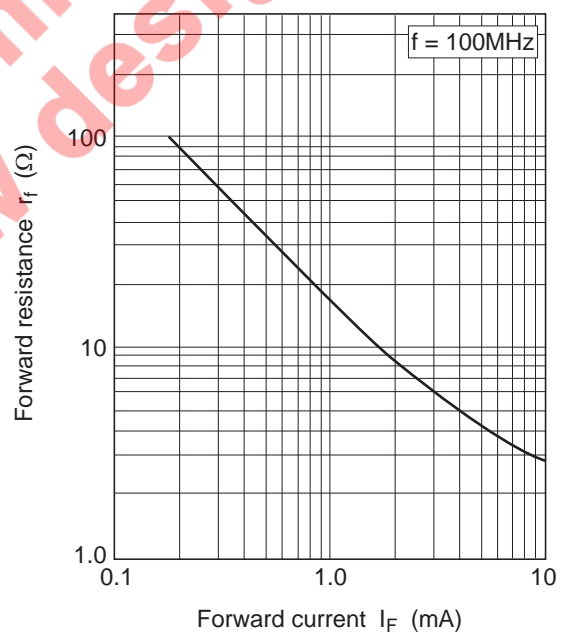
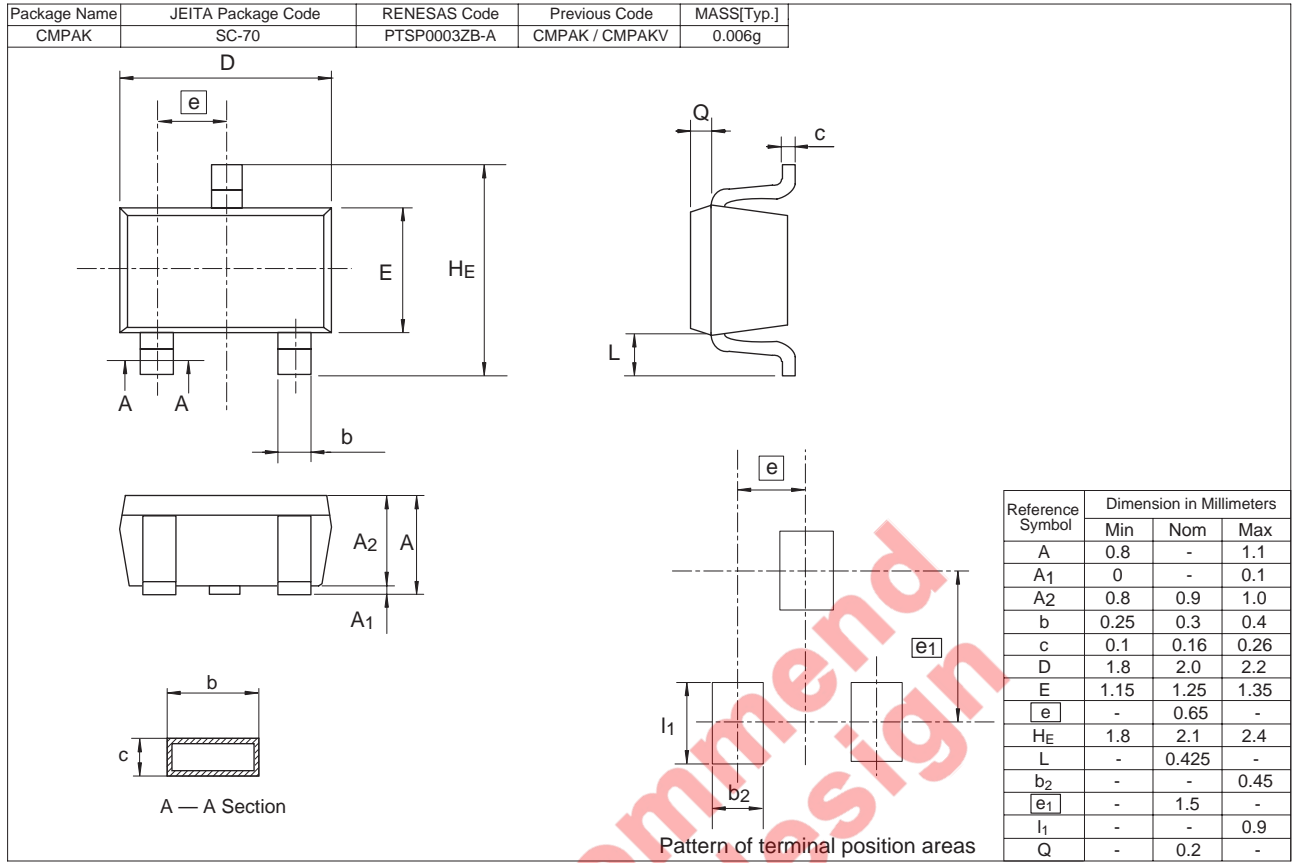


Fig.4 Forward resistance vs. Forward current

Package Dimensions



Not recommended for new design

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