

# RKD706KV

R07DS0411EJ0100

## Silicon Schottkey Barrier Diode for back flow protect

Rev.1.00

May 16, 2011

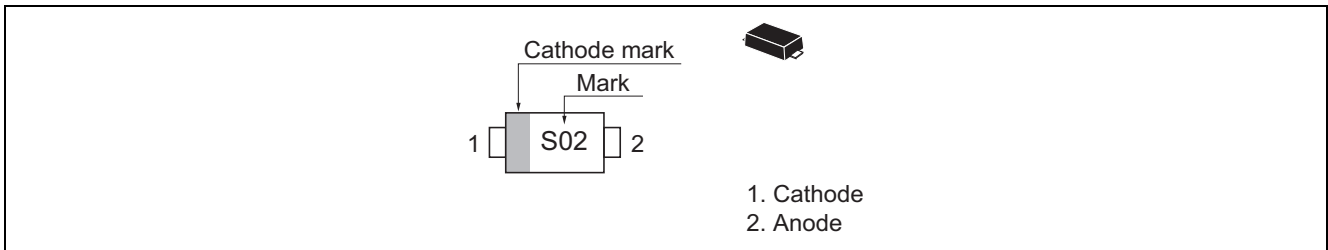
### Features

- Low reverse current and suitable for high efficiency rectifying.
- Halogen free, environmental friendly package includes conformity to RoHS directive.
- Small Resin Package Flat lead type (SRP-F) is suitable for compact and high-density surface mount design.

### Ordering Information

Part No	Laser Mark	Package Name	Package Code	Taping Abbreviation (Quantity)
RKD706KV P	S02	SRP-F	PWSF0002ZB-A	P (3,000 pcs / reel)

### Pin Arrangement



## Absolute Maximum Ratings

(Ta = 25°C)

Item	Symbol	Value	Unit
Reverse voltage	$V_R$	30	V
Forward current	$I_F$	35	mA
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 voltage	$V_R$	30	—	—	V	$I_R = 10\mu A$
Reverse current	$I_R$	—	—	10	nA	$V_R = 13V$
Forward voltage	$V_F$	—	—	0.70	V	$I_F = 10mA$
Capacitance	C	—	—	1.2	pF	$V_R = 0V, f = 1MHz$
ESD-Capability *	—	10	—	—	V	C = 200pF, Both forward and reverse direction 1 pulse.

Note: 1. Failure criterion ;  $I_R > 20$  nA at  $V_R = 13$  V

Main Characteristics

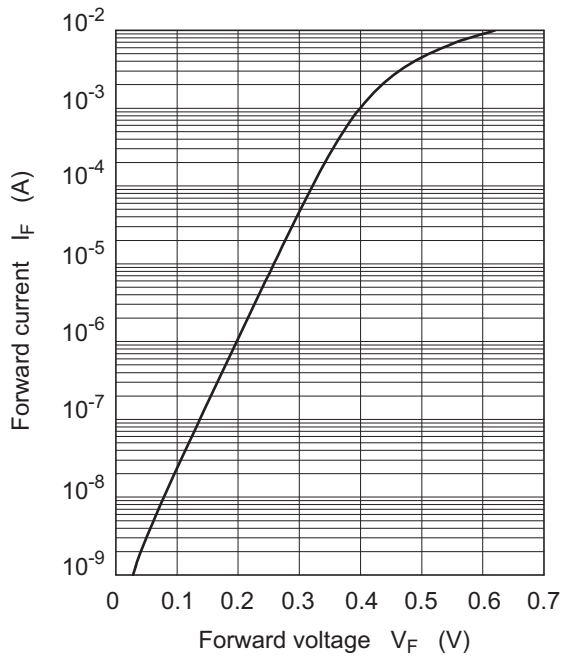


Fig.1 Forward current vs. Forward voltage

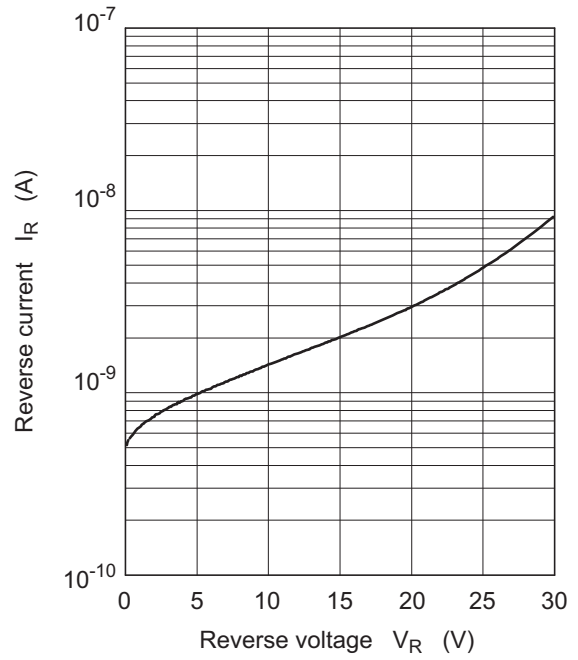


Fig.2 Reverse current vs. Reverse voltage

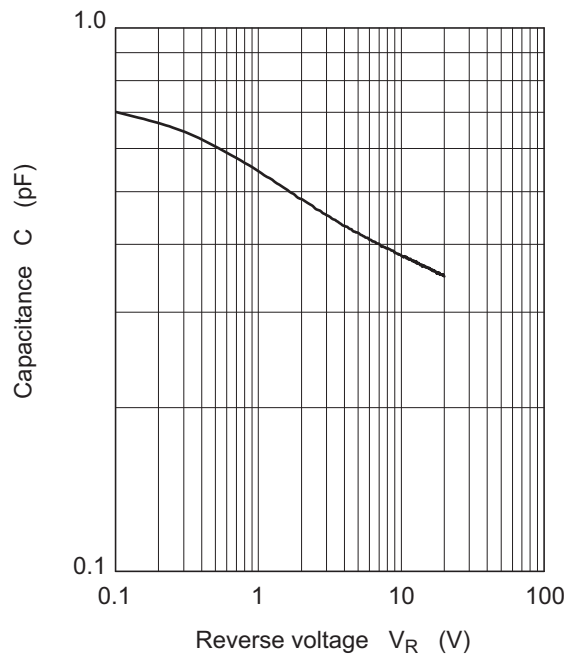
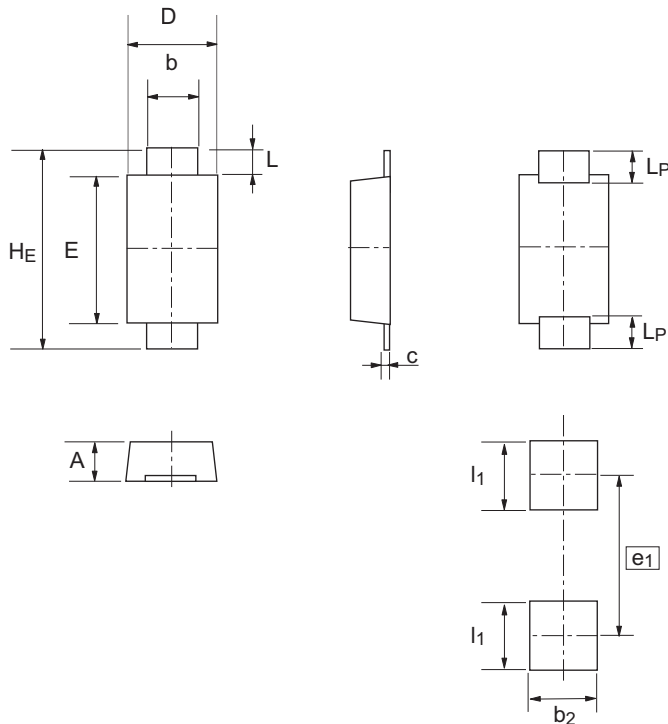


Fig.3 Capacitance vs. Reverse voltage

### Package Dimensions

Package Name	JEITA Package Code	RENESAS Code	Previous Code	MASS[Typ.]
SRP-F	—	PWSF0002ZB-A	SRP-FV	0.0084g



Pattern of terminal position areas

Reference Symbol	Dimension in Millimeters		
	Min	Nom	Max
A	0.6	0.7	0.8
b	0.8	0.9	1.0
c	0.08	0.13	0.18
D	1.5	1.6	1.7
E	2.5	2.6	2.7
HE	3.3	3.5	3.7
L	0.35	0.45	0.55
LP	—	0.600	—
b2	—	1.2	—
e1	—	2.8	—
l1	—	1.2	—

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