RKD750KP

Silicon Schottky Barrier Diode for Detector

REJ03G1460-0200
Rev.2.00
Feb 22, 2007

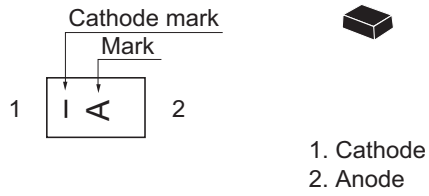
Features

- Low forward voltage, Low capacitance and High detection sensitivity.
- Halogen free, Environmental friendly Package include Conformity to RoHS Directive.
- Ultra small Package (0.6mm×0.3mm Size leadless type).

Ordering Information

Part No.	Laser Mark	Package Name	Package Code
RKD750KP	A	MP6	PXSN0002ZB-A

Pin Arrangement



1. Cathode
2. Anode

Absolute Maximum Ratings

(Ta = 25°C)

Item	Symbol	Value	Unit
Reverse voltage	V_R	2	V
Average rectified current	I_O	5	mA
Junction temperature	Tj	125	°C
Storage temperature	Tstg	–55 to +125	°C

Electrical Characteristics

(Ta = 25°C)

Item	Symbol	Min	Typ	Max	Unit	Test Condition
Forward voltage	V_{F1}	—	—	0.15	V	I_F = 0.1 mA
	V_{F2}	—	—	0.27		I_F = 1 mA
Capacitance	C	—	0.3	—	pF	V_R = 0.5 V, f = 1 MHz
ESD-Capability *[1]	—	10	—	—	V	C = 200 pF, R_L = 0 Ω, Both forward and reverse direction 1 pulse.

Notes: 1. Failure criterion ; $I_R \geq 100$ μA at V_R = 0.5 V

2. Please do not use the soldering iron due to avoid high stress to the MP6 package.

Main Characteristic

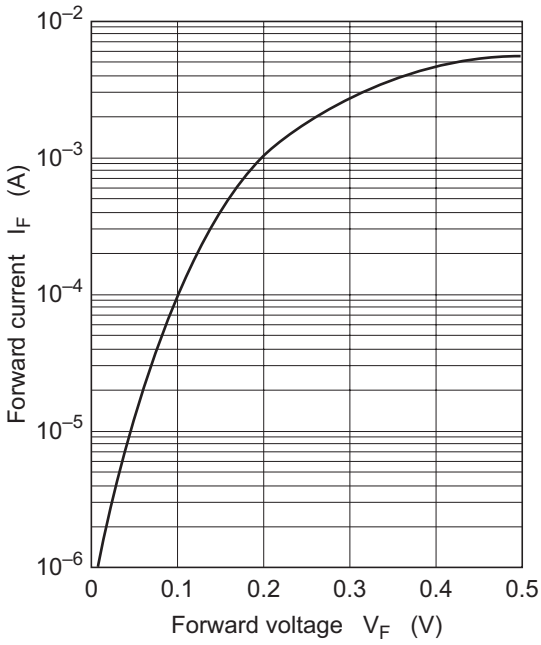


Fig.1 Forward current vs. Forward voltage

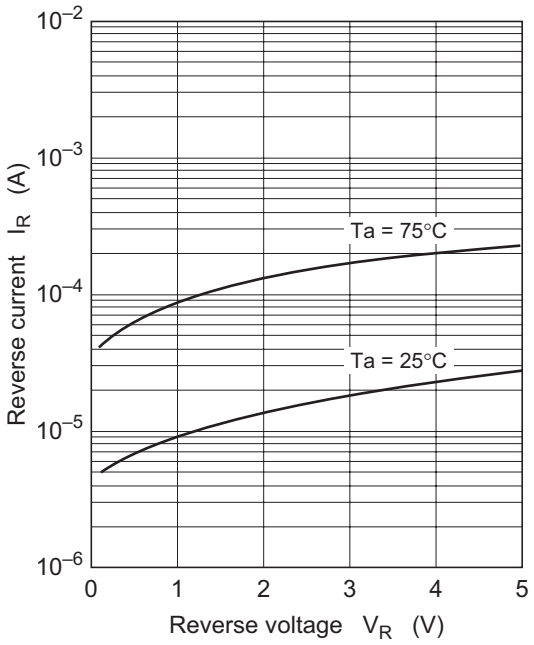


Fig.2 Reverse current vs. Reverse voltage

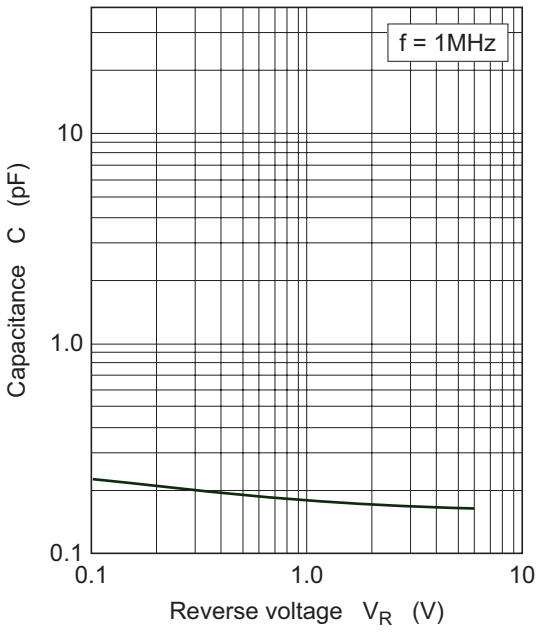
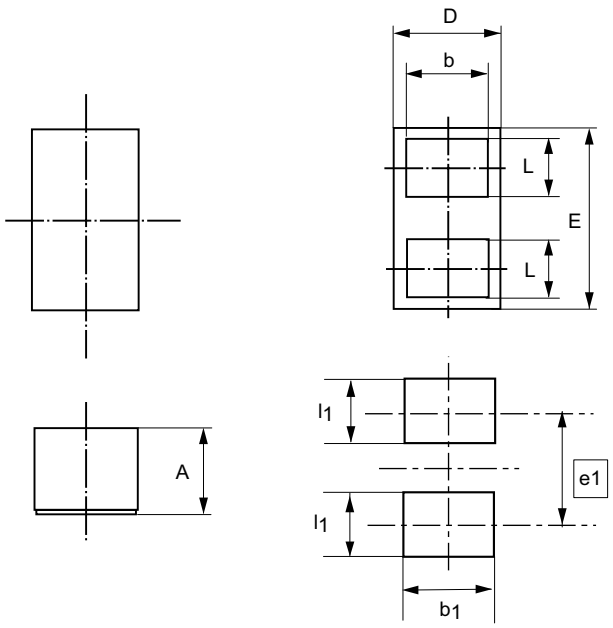


Fig.3 Capacitance vs. Reverse voltage

Package Dimensions

Package Name	JEITA Package Code	RENESAS Code	Previous Code	MASS[Typ.]
MP6	—	PXSN0002ZB-A	MP6V	0.00015g



Pattern of terminal position areas

Reference Symbol	Dimension in Millimeters		
	Min	Nom	Max
A	0.27	0.30	0.33
b	0.25	0.27	0.29
D	0.29	0.32	0.35
E	0.59	0.62	0.65
L	0.17	0.19	0.21
b1	—	0.31	—
e1	—	0.38	—
l_1	—	0.23	—

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