

# RKD750KP

# Silicon Schottky Barrier Diode for Detector

REJ03G1460-0200 Rev.2.00 Feb 22, 2007

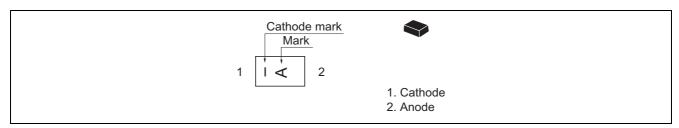
#### **Features**

- 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	Α	MP6	PXSN0002ZB-A

## **Pin Arrangement**



## **Absolute Maximum Ratings**

 $(Ta = 25^{\circ}C)$ 

Item	Symbol	Value	Unit
Reverse voltage	V <sub>R</sub>	2	V
Average rectified current	l <sub>o</sub>	5	mA
Junction temperature	Tj	125	°C
Storage temperature	Tstg	-55 to +125	°C

## **Electrical Characteristics**

 $(Ta = 25^{\circ}C)$ 

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Forward voltage	V <sub>F1</sub>	_	_	0.15	V	$I_F = 0.1 \text{ mA}$
	$V_{F2}$	_	_	0.27		I <sub>F</sub> = 1 mA
Capacitance	С	_	0.3	_	pF	$V_R = 0.5 \text{ V}, f = 1 \text{ MHz}$
ESD-Capability *1	_	10	_	_	V	$C = 200 \text{ pF}, R_L = 0 \Omega$ , Both forward
						and reverse direction 1 pulse.

Notes: 1. Failure criterion ;  $I_R \geq 100~\mu A$  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**

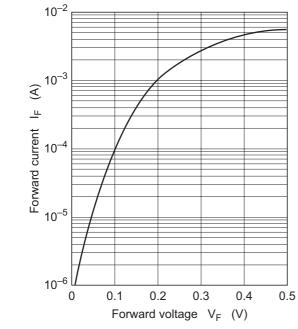


Fig.1 Forward current vs. Forward voltage

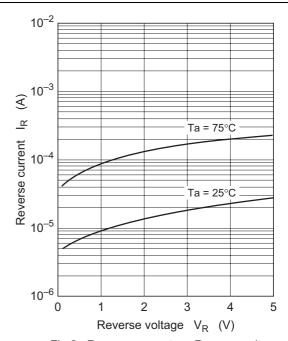
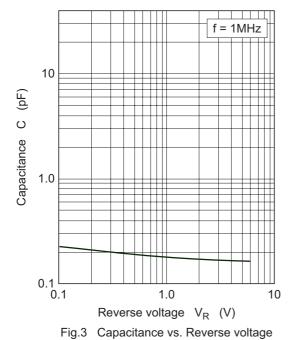
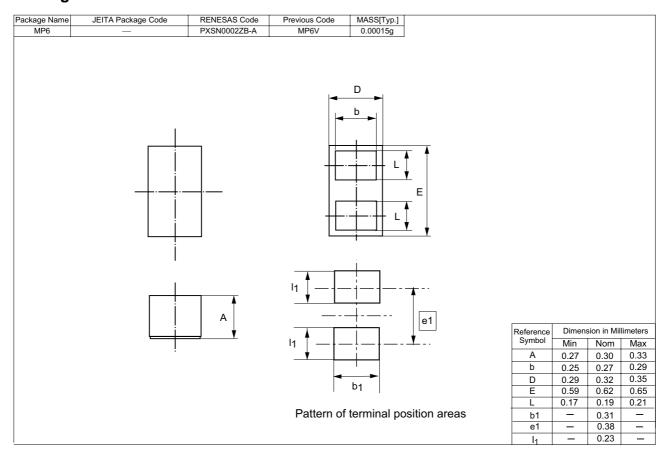


Fig.2 Reverse current vs. Reverse voltage



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## **Package Dimensions**



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