

RKD704KP

Silicon Schottky Barrier Diode for High Speed Switching

REJ03G1781-0100

Rev.1.00

Jun 26, 2009

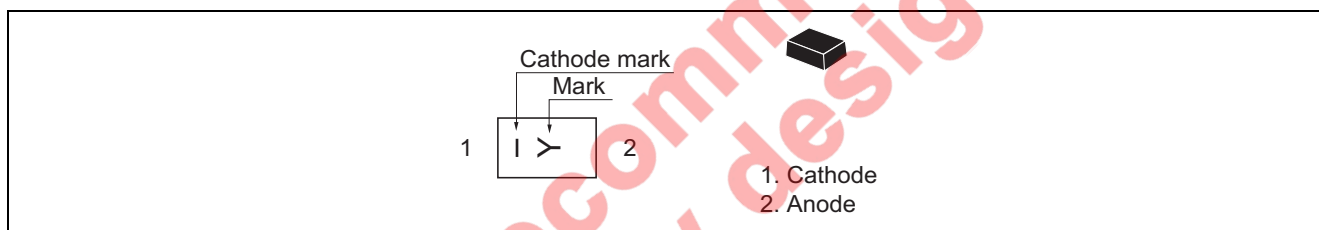
Features

- Low Power consumption (Low Forward voltage) and high speed (Low capacitance).
- Halogen free, Environmental friendly Package include Conformity to RoHS Directive.
- Ultra small Package (0.6 mm × 0.3 mm Size leadless type)

Ordering Information

Part No	Laser Mark	Package Name	Package Code	Taping Abbreviation (Quantity)
RKD704KP R	Y	MP6	PXSN0002ZB-A	R (10,000 pcs / reel)

Pin Arrangement



Absolute Maximum Ratings

(Ta = 25°C)

Item	Symbol	Value	Unit
Repetitive peak reverse voltage	V_{RRM}	30	V
Forward current	I_F	50	mA
Non-Repetitive Peak forward surge current	I_{FSM}^*	200	mA
Junction temperature	T_j	125	°C
Storage temperature	T_{stg}	-55 to +125	°C

Note: 10 ms Sine Wave 1 pulse

Electrical Characteristics

(Ta = 25°C)

Item	Symbol	Min	Typ	Max	Unit	Test Condition
Forward voltage	V_{F1}	—	—	0.25	V	$I_F = 1 \text{ mA}$
	V_{F2}	—	—	0.30	V	$I_F = 10 \text{ mA}$
	V_{F3}	—	—	0.34	V	$I_F = 20 \text{ mA}$
Reverse current	I_{R1}	—	—	10	μA	$V_R = 10 \text{ V}$
	I_{R2}	—	—	50	μA	$V_R = 30 \text{ V}$
Capacitance	C	—	—	5	pF	$V_R = 1 \text{ V}, f = 1 \text{ MHz}$

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

Not recommended
for new designs

Main Characteristics

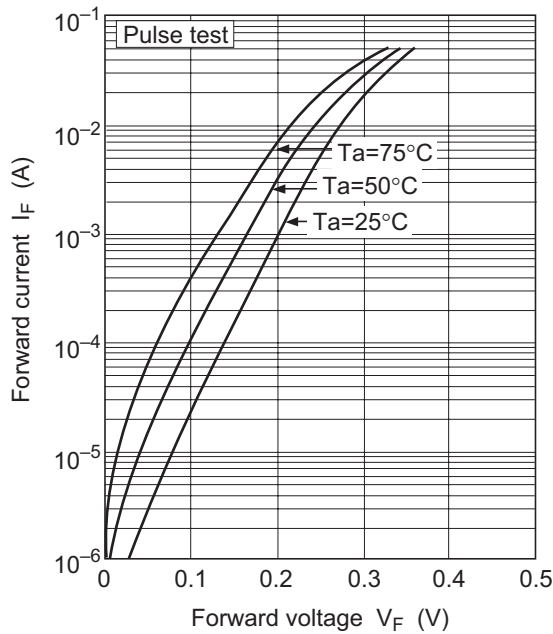


Fig.1 Forward current vs. Forward voltage

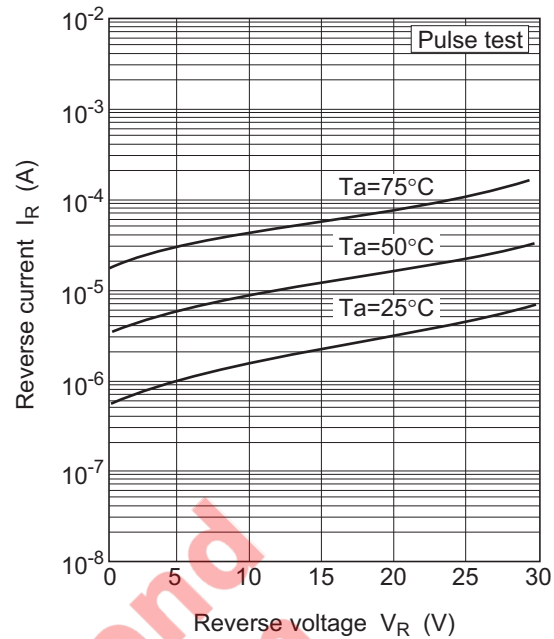


Fig.2 Reverse current vs. Reverse voltage

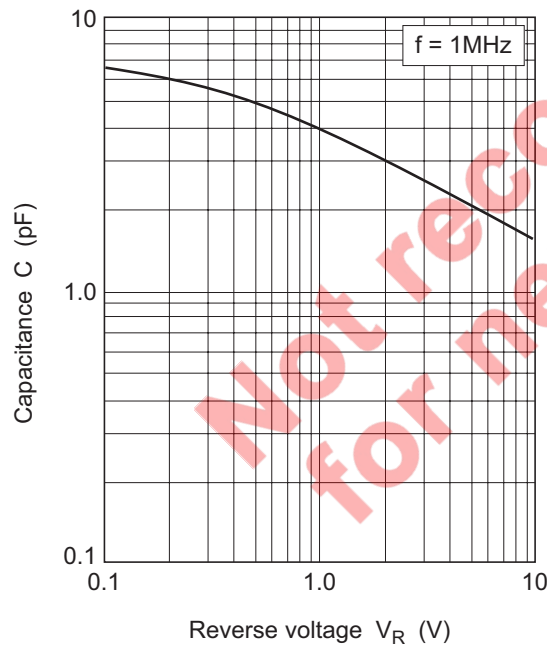
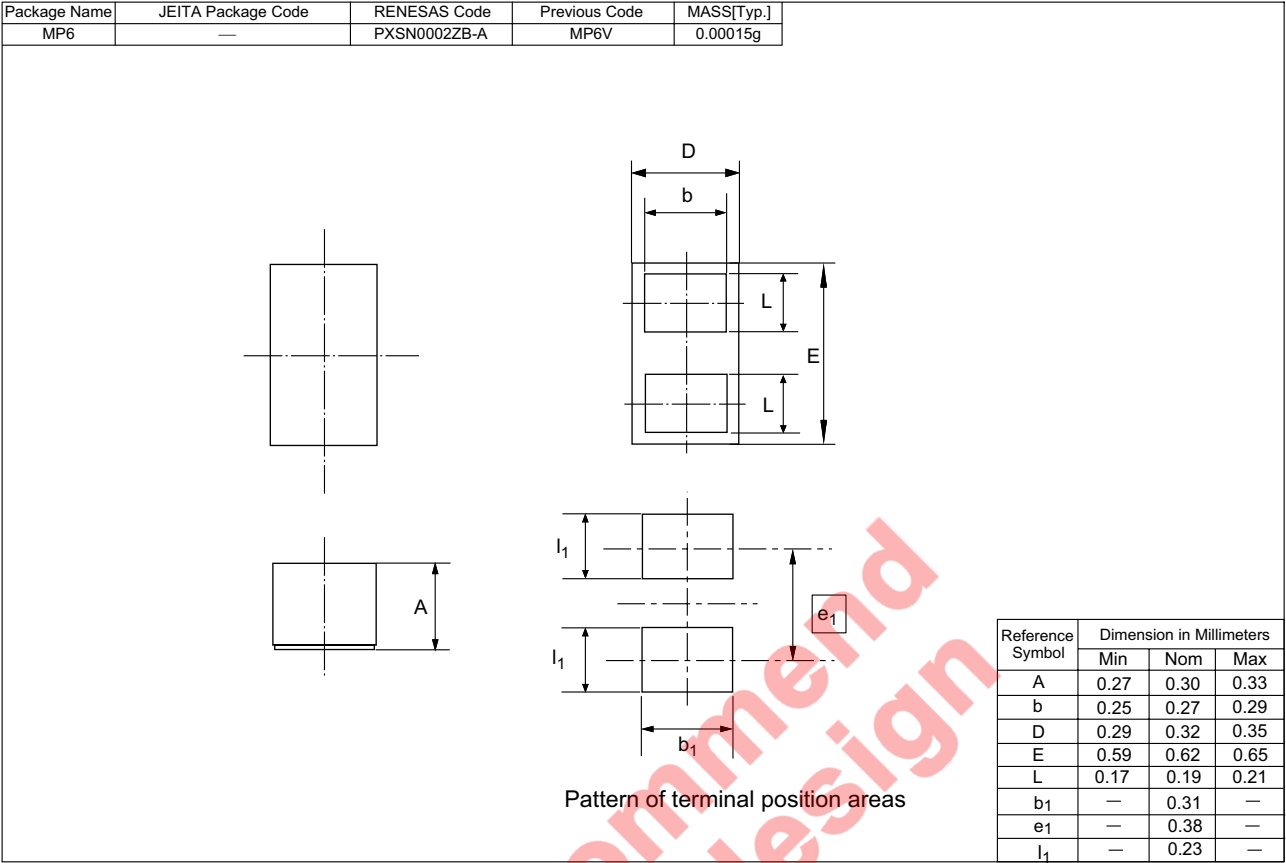


Fig.3 Capacitance vs. Reverse voltage

Package Dimensions



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April 1st, 2010
Renesas Electronics Corporation

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