

# RKD702KL

## Silicon Schottky Barrier Diode for High Speed Switching

REJ03G1542-0100 Rev.1.00 Sep 03, 2007

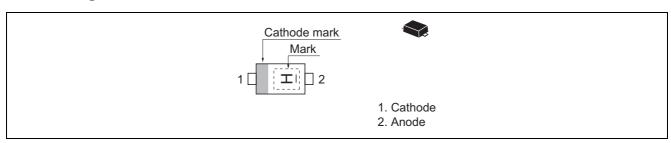
#### **Features**

- Low Power consumption (Low reverse leak current) and high speed (Low capacitance).
- Lineup of Environmental friendly Halogen free type (RKD702KL-N).
- Extremely small Flat Lead Package (EFP) is suitable for surface mount design.

## **Ordering Information**

Part No.	Laser Mark	Package Name	Package Code
RKD702KL	Н	EFP	PXSF0002ZA-A
RKD702KL-N			
(Halogen-free type)			

### **Pin Arrangement**



## **Absolute Maximum Ratings**

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

Item	Symbol	Value	Unit
Repetitive peak reverse voltage	$V_{RRM}$	30	V
Non-Repetitive Peak forward surge current	I <sub>FSM</sub> *	200	mA
Forward current	I <sub>F</sub>	50	mA
Junction temperature	Tj	125	°C
Storage temperature	Tstg	-55 to +125	°C

Note: 10 ms Sine Wave 1 pulse

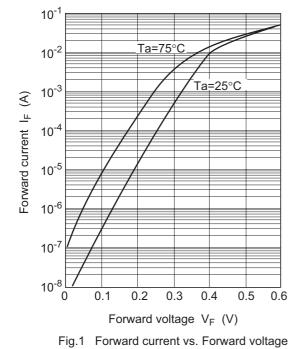
#### **Electrical Characteristics**

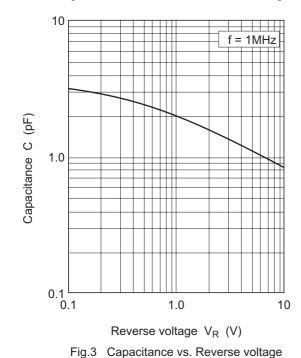
 $(Ta = 25^{\circ}C)$ 

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Forward voltage	V <sub>F1</sub>	_	1	0.35	V	$I_F = 1 \text{ mA}$
	$V_{F2}$	_	_	0.40	V	$I_F = 5 \text{ mA}$
Reverse current	I <sub>R1</sub>	_	_	100	nA	V <sub>R</sub> = 20 V
	I <sub>R2</sub>	_	_	250	nA	V <sub>R</sub> = 30 V
Capacitance	С	_	_	2.50	pF	V <sub>R</sub> = 1 V, f = 1 MHz

Note: For EFP package, the material of lead is exposed for cutting plane. There for, soldering nature of lead tip part is considered as unquestioned. Please kindly consider soldering nature.

#### **Main Characteristic**





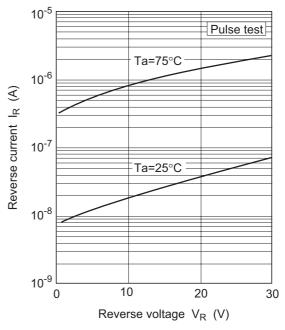
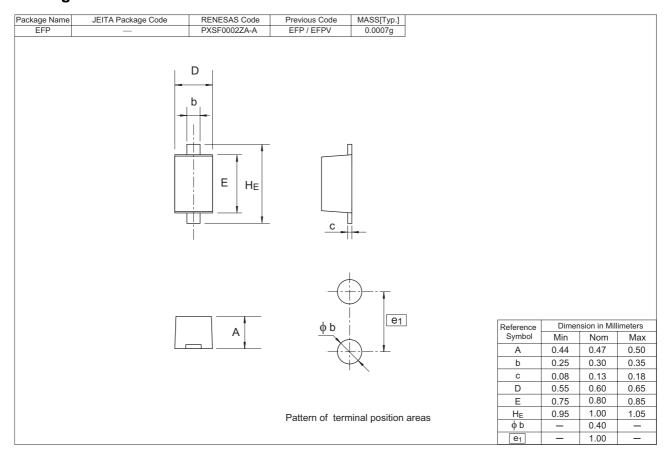


Fig.2 Reverse current vs. Reverse voltage

## **Package Dimensions**



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