

# **HSC285**

# Silicon Schottky Barrier Diode for Detector

REJ03G0011-0200 Rev.2.00 May 17, 2006

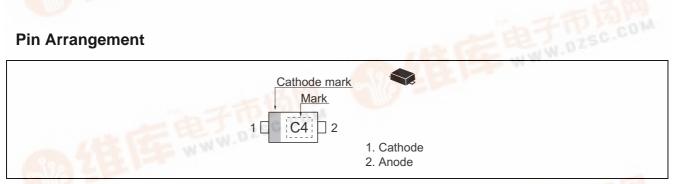
#### **Features**

- Low forward voltage, Low capacitance and High detection sensitivity.
- Ultra small Flat Lead Package (UFP) is suitable for surface mount design.

### **Ordering Information**

Type No.	Laser Mark	Laser Mark Package Name	
HSC285	C4	UFP	PWFS0002ZA-A

#### **Pin Arrangement**





## **Absolute Maximum Ratings**

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

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

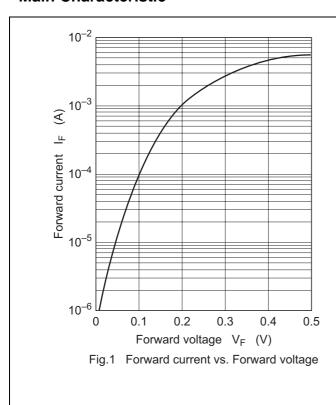
### **Electrical Characteristics**

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

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

Note: 1. Failure criterion ;  $I_R \ge 100 \mu A$  at  $V_R = 0.5 \text{ V}$ 

#### **Main Characteristic**



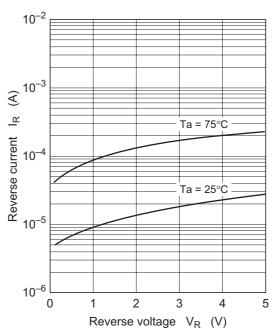
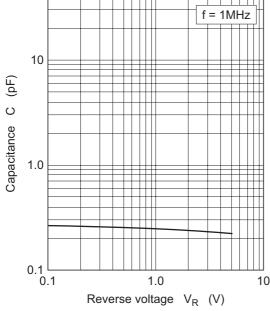
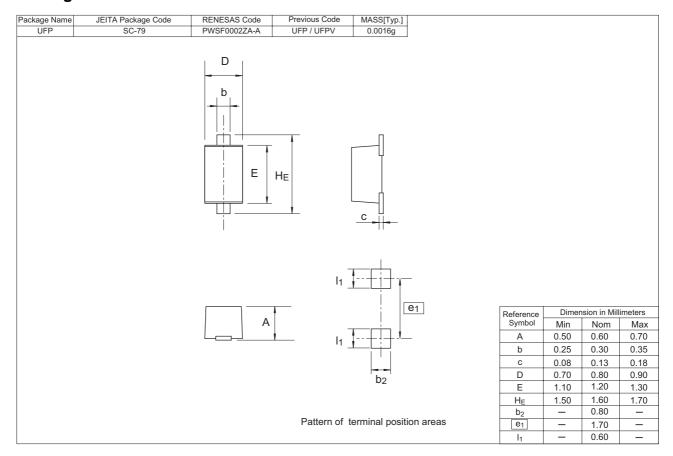


Fig.2 Reverse current vs. Reverse voltage



## **Package Dimensions**



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