

# **HSD278**

# Silicon Schottky Barrier Diode for Detector

REJ03G0605-0200

(Previous: ADE-208-1015A)

Rev.2.00 Apr 15, 2005

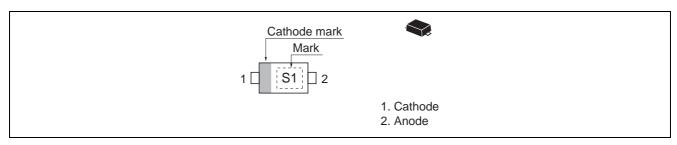
#### **Features**

- Low forward voltage, Low capacitance.
- Super small Flat Lead Package (SFP) is suitable for surface mount design.

## **Ordering Information**

Type No.	Cathode Mark	Package Name	Package Code (Previous Code)
HSD278	S1	SFP	PUSF0002ZB-A (SFP)

### **Pin Arrangement**



## **Absolute Maximum Ratings**

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

Item	Symbol	Value	Unit
Repetitive peak reverse voltage	$V_{RRM}$	30	V
Reverse voltage	V <sub>R</sub>	30	V
Non-Repetitive peak forward surge current	I <sub>FSM</sub> *	200	mA
Peak forward current	I <sub>FM</sub>	150	mA
Average rectified current	I <sub>0</sub>	30	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>	_	_	0.30	V	I <sub>F</sub> = 1 mA
	$V_{F2}$	_	_	0.95		I <sub>F</sub> = 30 mA
Reverse current	I <sub>R</sub>	_	_	700	nA	V <sub>R</sub> = 10 V
Capacitance	С	_	_	1.5	pF	V <sub>R</sub> = 1 V, f = 1 MHz
ESD-Capability *1	_	100	_	_	V	C = 200 pF, $R_L$ = 0 $\Omega$ , Both forward and reverse direction 1 pulse.

Notes: 1. Failure criterion ;  $I_R \geq$  1.4  $\mu A$  at  $V_R$  = 10 V

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

#### **Main Characteristic**

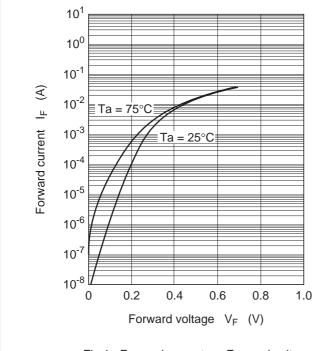
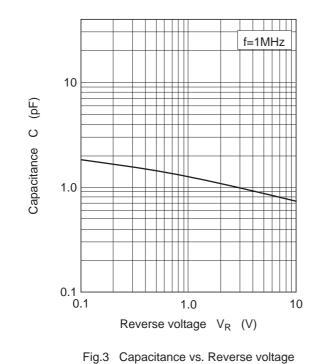
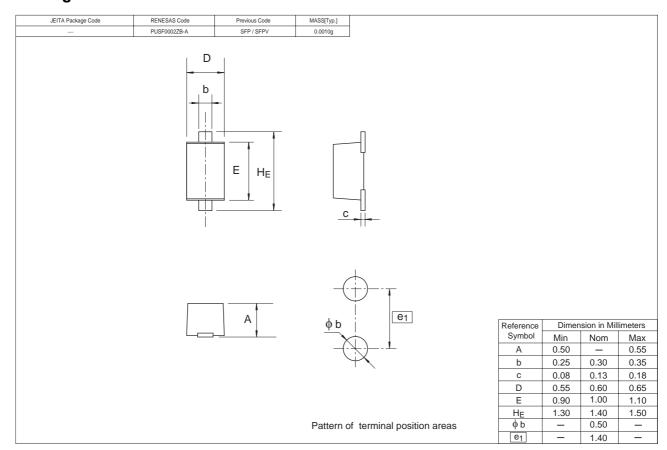


Fig.1 Forward current vs. Forward voltage





# **Package Dimensions**



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