



# HSL276A

## Silicon Schottky Barrier Diode for Detector

REJ03G0528-0100

Rev.1.00

Feb 09, 2005

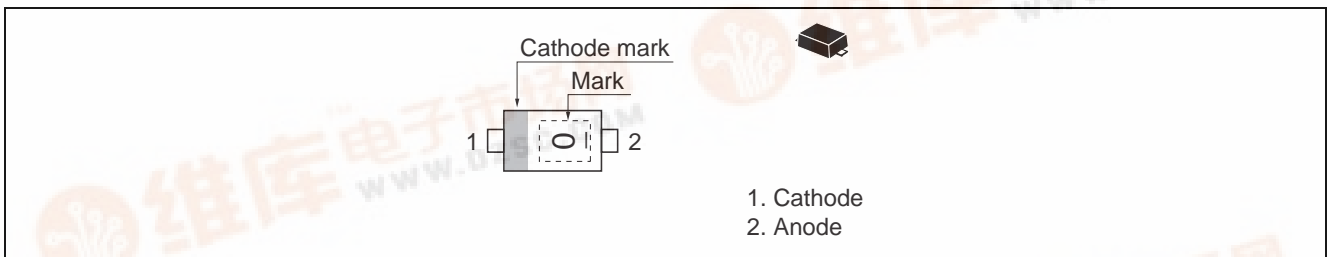
### Features

- High forward current, Low capacitance.
- Extremely small Flat Lead Package (EFP) is suitable for surface mount design.

### Ordering Information

Type No.	Laser Mark	Renesas Code	Previous Code
HSL276A	0	PXSF0002ZA-A	EFP

### Pin Arrangement



## Absolute Maximum Ratings

(Ta = 25°C)

Item	Symbol	Value	Unit
Repetitive peak reverse voltage	$V_{RRM}$	5	V
Reverse voltage	$V_R$	3	V
Average rectified current	$I_O$	30	mA
Junction temperature	$T_j$	125	°C
Storage temperature	$T_{stg}$	-55 to +125	°C

## Electrical Characteristics

(Ta = 25°C)

Item	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse voltage	$V_R$	3.0	—	—	V	$I_R = 1 \text{ mA}$
Reverse current	$I_R$	—	—	50	$\mu\text{A}$	$V_R = 0.5 \text{ V}$
Forward current	$I_F$	35	—	—	mA	$V_F = 0.5 \text{ V}$
Capacitance	C	—	—	0.85	pF	$V_R = 0.5 \text{ V}, f = 1 \text{ MHz}$
ESD-Capability *1	—	30	—	—	V	C = 200 pF, $R_L = 0 \Omega$ , Both forward and reverse direction 1 pulse.

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

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

3. 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

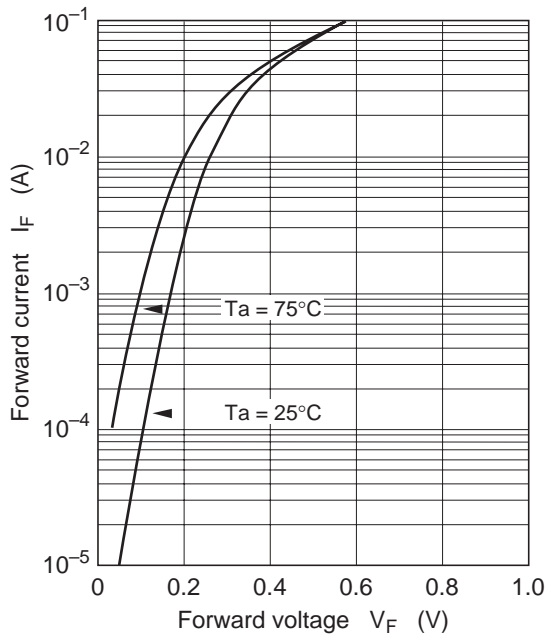


Fig.1 Forward current vs. Forward voltage

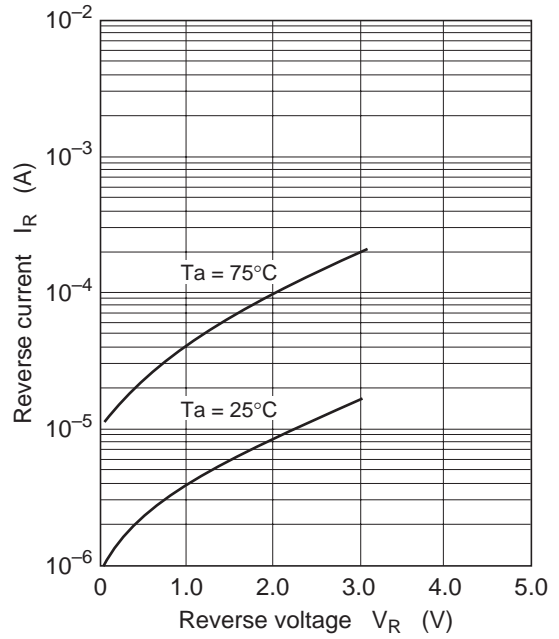


Fig.2 Reverse current vs. Reverse voltage

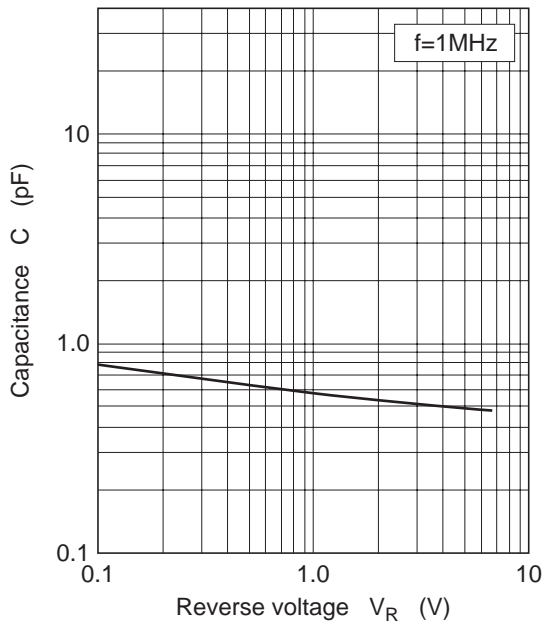
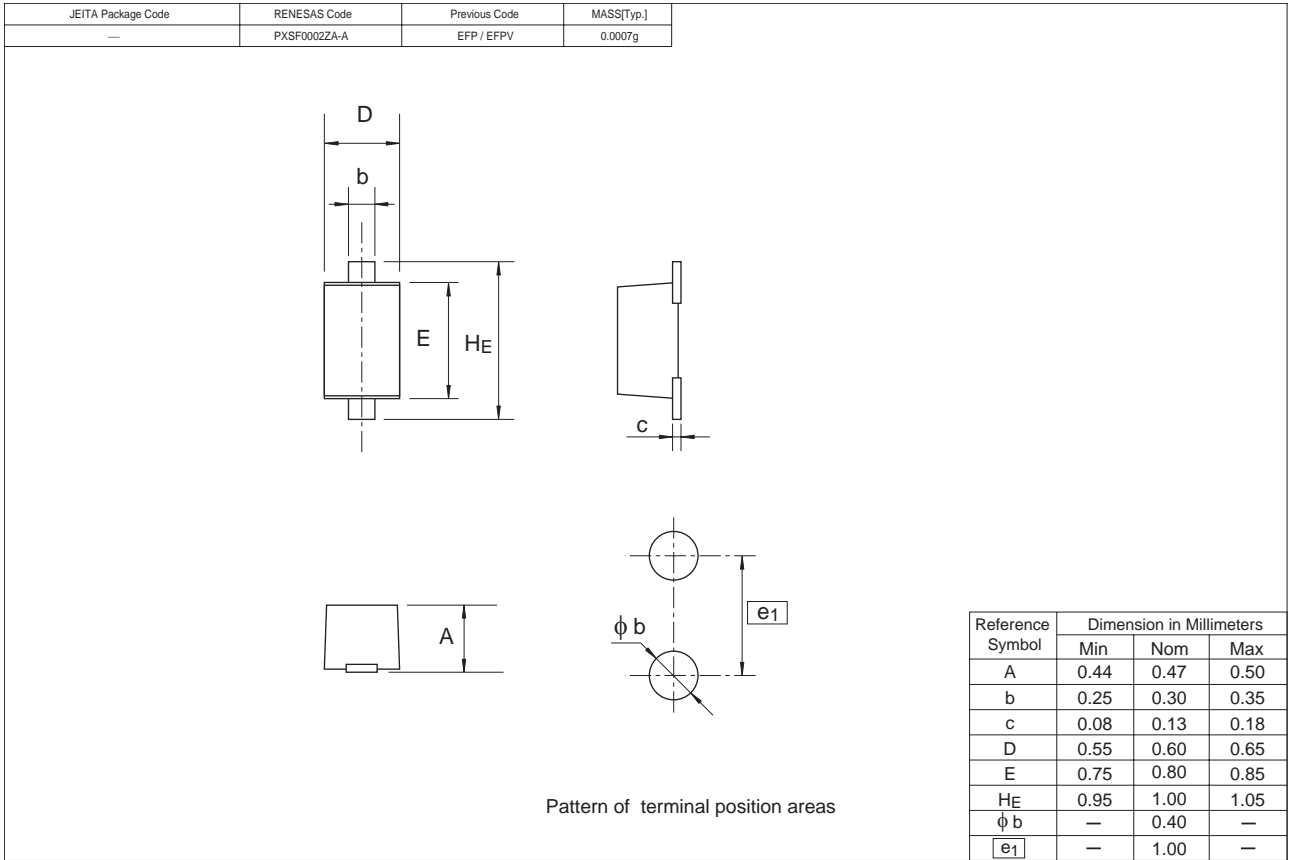


Fig.3 Capacitance vs. Reverse voltage

Package Dimensions



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