

# HSD88

Silicon Schottky Barrier Diode for Detector, Mixer

REJ03G0602-0100  
 (Previous: ADE-208-1386)  
 Rev.1.00  
 Apr 26, 2005

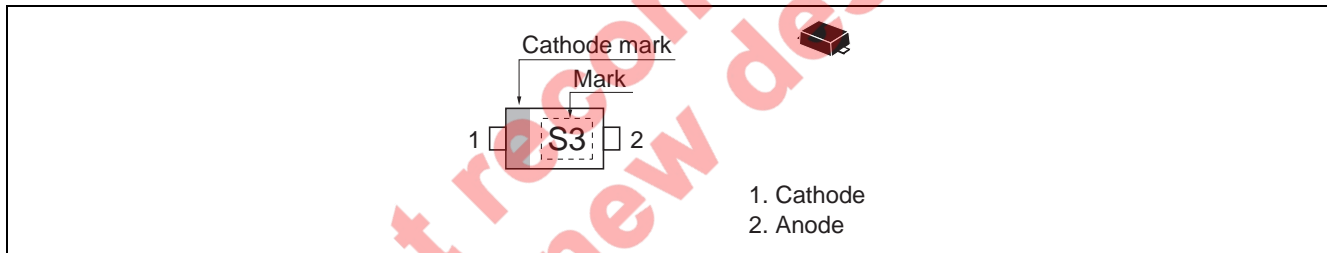
## Features

- Low capacitance. (C = 0.8 pF max)
- Low forward voltage.
- Super small Flat Lead Package (SFP) is suitable for surface mount design.

## Ordering Information

Type No.	Cathode Mark	Package Name	Package Code (Previous Code)
HSD88	S3	SFP	PUSF0002ZB-A (SFP)

## Pin Arrangement



## Absolute Maximum Ratings

(Ta = 25°C)

Item	Symbol	Value	Unit
Reverse voltage	$V_R$	10	V
Average rectified current	$I_O$	15	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
Forward voltage	$V_{F1}$	0.350	—	0.420	V	$I_F = 1 \text{ mA}$
	$V_{F2}$	0.500	—	0.580		$I_F = 10 \text{ mA}$
Reverse current	$I_{R1}$	—	—	0.2	$\mu\text{A}$	$V_R = 2 \text{ V}$
	$I_{R2}$	—	—	10		$V_R = 10 \text{ V}$
Capacitance	C	—	—	0.80	pF	$V_R = 0 \text{ V}$ , $f = 1 \text{ MHz}$
ESD-Capability *1	—	30	—	—	$\Omega$	C = 200 pF, Both forward and reverse direction 1 pulse.

Notes: 1. Failure criterion ;  $I_R > 0.4 \mu\text{A}$  at  $V_R = 2 \text{ V}$

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

Not recommended  
for new design

Main Characteristic

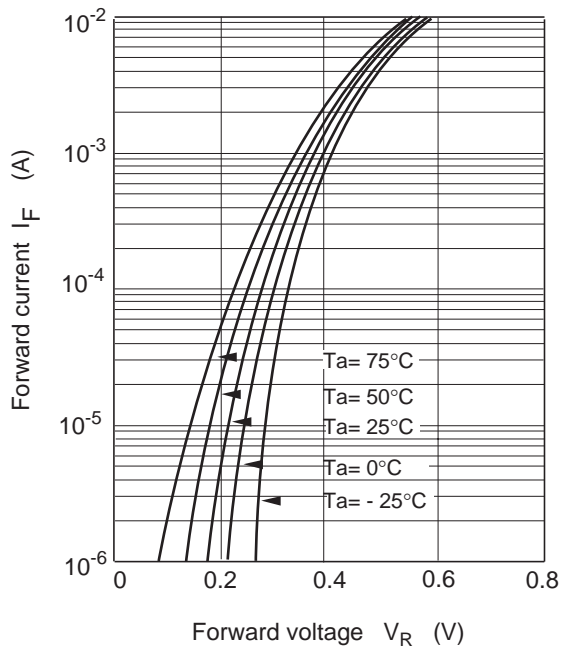


Fig.1 Forward current vs. Forward voltage

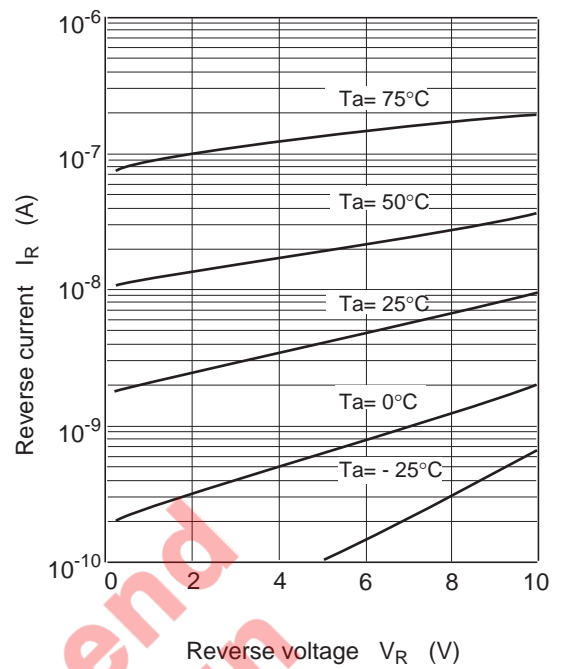


Fig.2 Reverse current vs. Reverse voltage

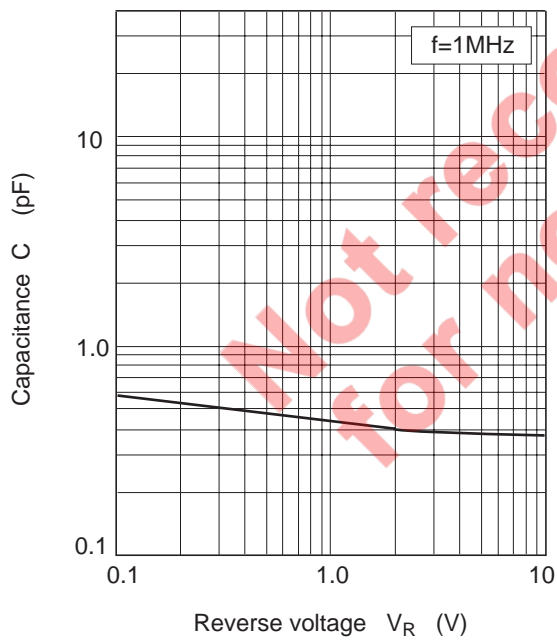
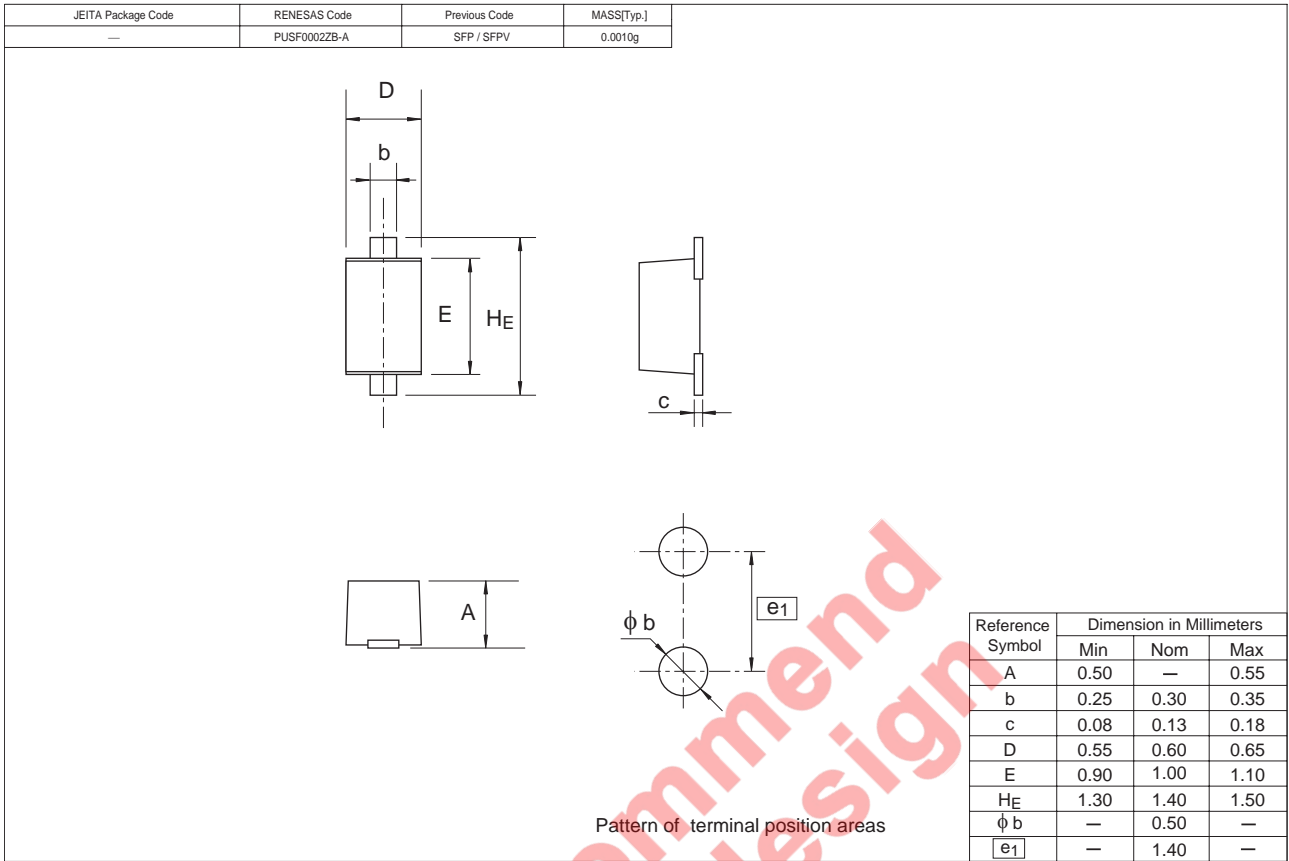


Fig.3 Capacitance vs. Reverse voltage

Package Dimensions



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