HSC88

Silicon Schottky Barrier Diode for Various Detector, Mixer

HITACHI

ADE-208-826 (Z)
Rev 0
Nov. 1999

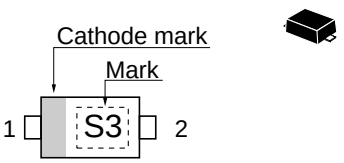
Features

- Low capacitance. (C = 0.8pF max)
- Low forward voltage.
- Ultra small Flat Package (UFP) is suitablefor high density surface mounting and high speed assembly.

Ordering Information

Type No.	Laser Mark	Package Code
HSC88	S3	UFP

Outline



1. Cathode
2. Anode

Hitachi semiconductor

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	Tj	125	°C
Storage temperature	Tstg	-55 to +125	°C

Electrical Characteristics (Ta = 25°C)

Item	Symbol	Min	Typ	Max	Unit	Test Condition
Forward voltage	V_{F1}	350	—	420	mV	I_F = 1 mA
	V_{F2}	500	—	580		I_F = 10 mA
Reverse current	I_{R1}	—	—	0.2	µA	V_R = 2V
	I_{R2}	—	—	10		V_R = 10V
Capacitance	C	—	—	0.8	pF	V_R = 0V, f = 1 MHz
ESD-Capability[*1]	—	30	—	—	V	C = 200pF , Both forward and reverse direction 1 pulse.

Notes 1. Failure criterion ; $I_R \geq 400nA$ at V_R =2 V

Main Characteristic

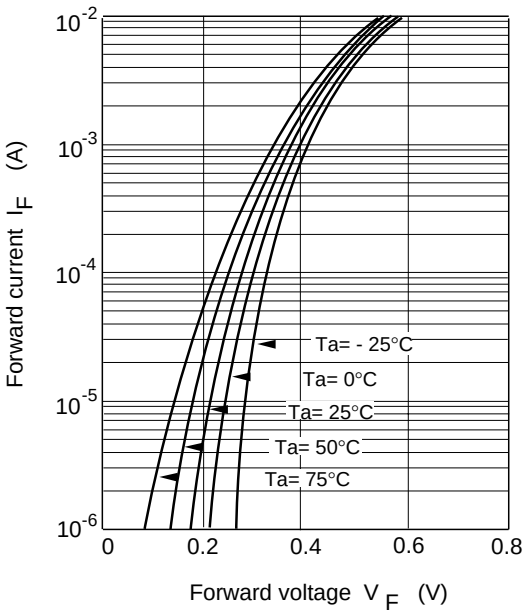


Fig.1 Forward current Vs. Forward voltage

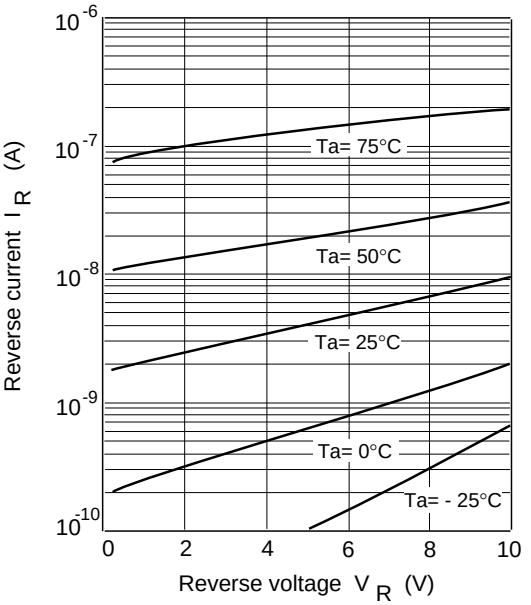


Fig.2 Reverse current Vs. Reverse voltage

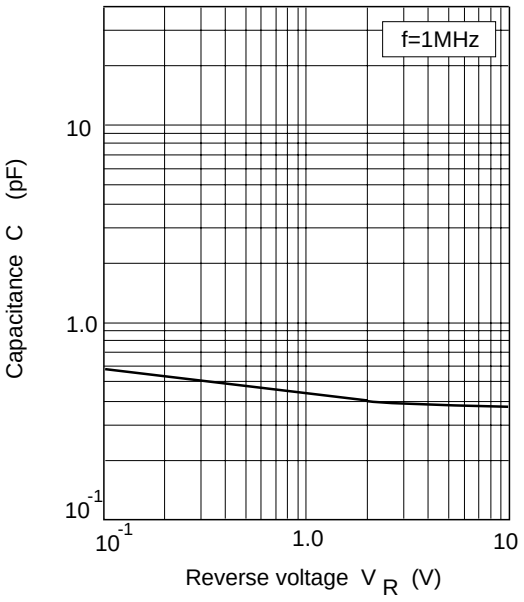
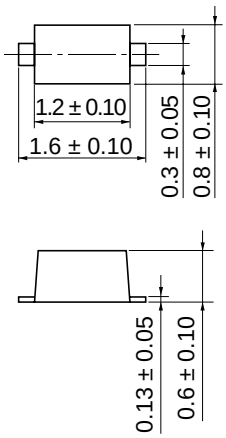


Fig.3 Capacitance Vs. Reverse voltage

Package Dimensions

Unit: mm





Hitachi Code	UFP
JEDEC	—
EIAJ	Conforms
Mass	0.0016 g

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