HSD278

Silicon Schottky Barrier Diode

HITACHI

ADE-208-1015A (Z) Rev.1 Jan. 2001

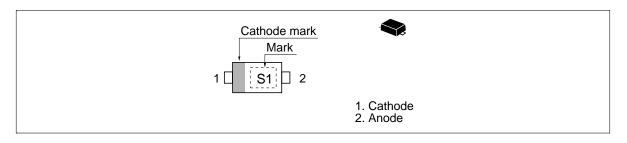
Features

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

Ordering Information

Type No.	Laser Mark	Package Code
HSD278	S1	SFP

Outline





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Absolute Maximum Ratings (Ta = 25°C)

Item	Symbol	Value	Unit
Repetitive peak reverse voltage	V_{RRM}	30	V
Reverse voltage	V_R	30	V
Non-Repetitive peak forward surge current	I _{FSM} *	200	mA
Peak forward current	I _{FM}	150	mA
Average rectified current	I _o	30	mA
Junction temperature	Tj	125	°C
Storage temperature	Tstg	-55 to +125	°C

Note: 10 msec sine wave 1 pulse

Electrical Characteristics (Ta = 25°C)

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Forward voltage	V_{F1}	_	_	0.30	V	I _F = 1 mA
	V_{F2}	_	_	0.95		I _F = 30 mA
Reverse current	I _R	_	_	700	nA	V _R = 10 V
Capacitance	С	_	_	1.50	pF	V _R = 1 V, f = 1 MHz
ESD-Capability *1	<u> </u>	100		_	V	$C = 200 \text{ pF}, R_L = 0 \Omega$, Both forward and reverse direction 1 pulse.

Notes: 1. Failure criterion ; $I_{R} \geq 1.4~\mu\text{A}$ at V_{R} = 10 V

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

Main Characteristic

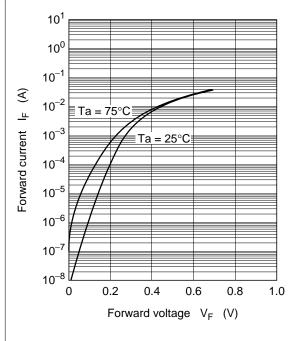


Fig.1 Forward current Vs. Forward voltage

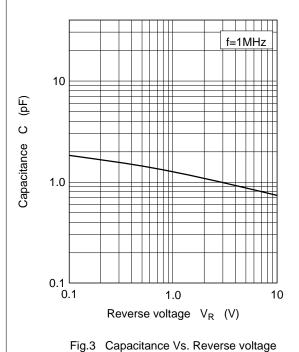
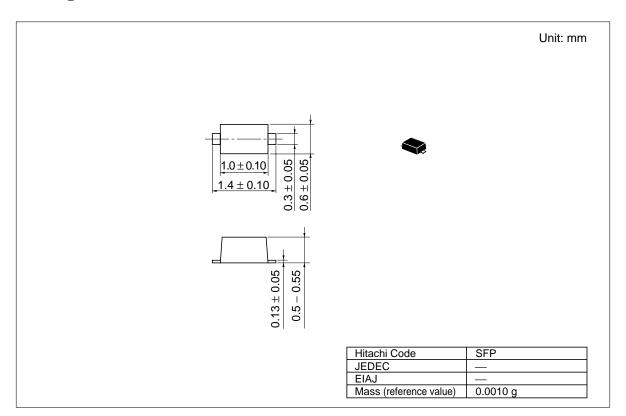


Fig.2 Reverse current Vs. Reverse voltage

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Package Dimensions



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