Silicon Schottky Barrier Diode for Rectifying

HITACHI

ADE-208-1614 (Z)

Rev.0 Jan. 2003

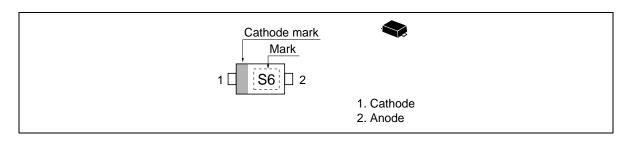
Features

- Low reverse voltage drop and suitable for high efficiency reverse current.
- Super small Flat Package (SFP) is suitable for surface mount design.

Ordering Information

Type No.	Laser Mark	Package Code	
HRD0103C	S6	SFP	

Pin Arrangement





Absolute Maximum Ratings

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

Item	Symbol	Value	Unit
Peak reverse voltage	V _{RM} *1	30	V
Reverse voltage	V_R	30	V
Average rectified current	l _o *1	100	mA
Peak forward surge current	I _{FM}	300	mA
Non-Repetitive peak forward surge current	FSM *2	1	A
Junction temperature	Tj	125	°C
Storage temperature	Tstg	-55 to +125	°C

Notes: 1. See from Fig.3 to Fig.5.

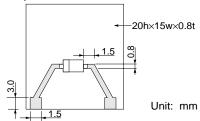
2. 10 ms sine wave 1 pulse.

Electrical Characteristics

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

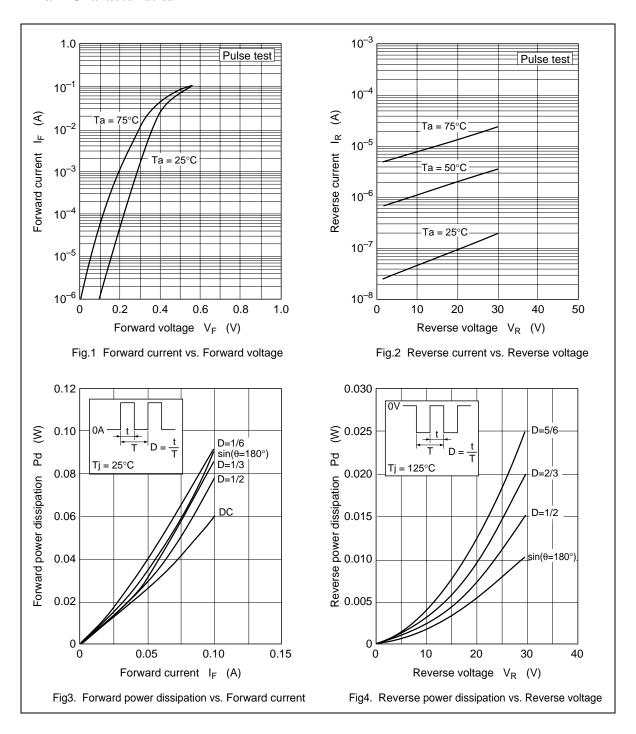
Item	Symbol	Min	Тур	Max	Unit	Test Condition
Forward voltage	V_{F}	_	_	0.6	V	I _F = 100 mA
Reverse current	I _{R1}	_	_	0.1	μΑ	$V_R = 5 \text{ V}$
	I _{R2}	_	_	0.2		V _R = 10 V
Capacitance	С	_	_	8.0	pF	$V_R = 0.5 \text{ V, f} = 1 \text{ MHz}$
Thermal resistance	Rth(j-a)	_	600	_	°C/W	Polyimide board *1

Note: 1. Polyimide board

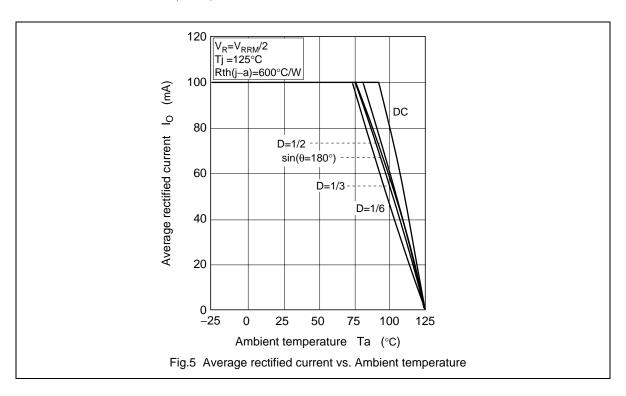


2. Please do not use the soldering iron due to avoid high stress to the SFP package.

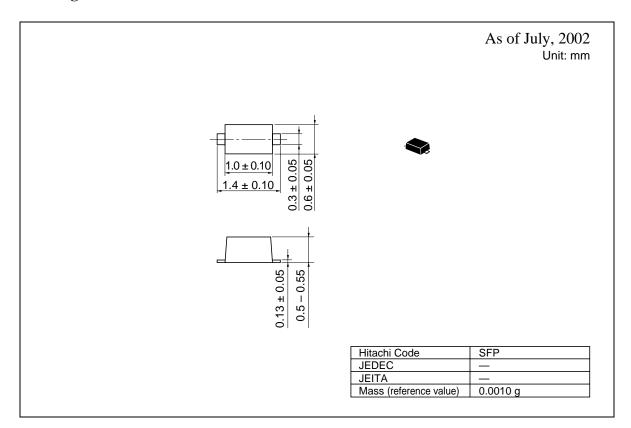
Main Characteristics



Main Characteristics (cont.)



Package Dimensions



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