

HRD0103C

Silicon Schottky Barrier Diode for Rectifying

REJ03G0070-0200 Rev.2.00 Mar 05, 2007

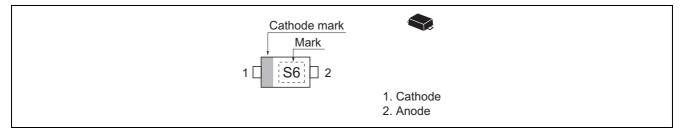
Features

- Low reverse voltage drop and suitable for high efficiency reverse current.
- Lineup of environmental friendly Halogen free type (HRD0103C-N)
- Super small Flat Lead Package (SFP) is suitable for surface mount design.

Ordering Information

Part No.	Laser Mark	Package Name	Package Code
HRD0103C	S6	SFP	PUSF0002ZB-A
HRD0103C-N			
(Halogen-free type)			

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	lo * ¹	100	mA
Peak forward surge current	I _{FM}	300	mA
Non-Repetitive peak forward surge current	I _{FSM} * ²	1	А
Junction temperature	Тј	125	°C
Storage temperature	Tstg	-55 to +125	°C

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

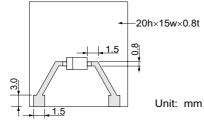
2. 10 ms sine wave 1 pulse.

Electrical Characteristics

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

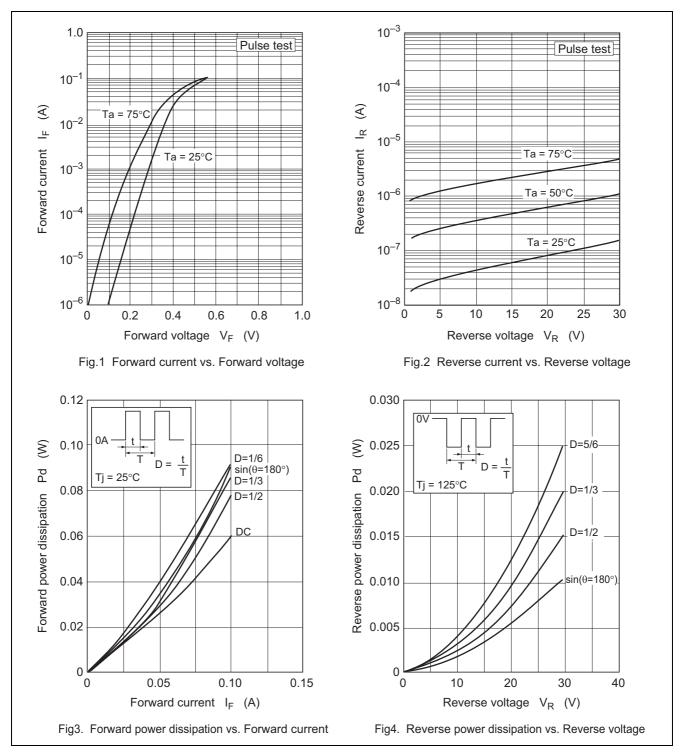
Item	Symbol	Min	Тур	Max	Unit	Test Condition
Forward voltage	V_{F1}			0.4	V	I _F = 10 mA
	V _{F2}		-	0.6	V	I _F = 100 mA
Reverse current	I _{R1}	_	_	0.1	μA	$V_R = 5 V$
	I _{R2}	_	-	0.2		V _R = 10 V
Capacitance	С	_	_	8.0	pF	$V_R = 0.5 V, f = 1 MHz$
Thermal resistance	Rth(j-a)		600		°C/W	Polyimide board *1

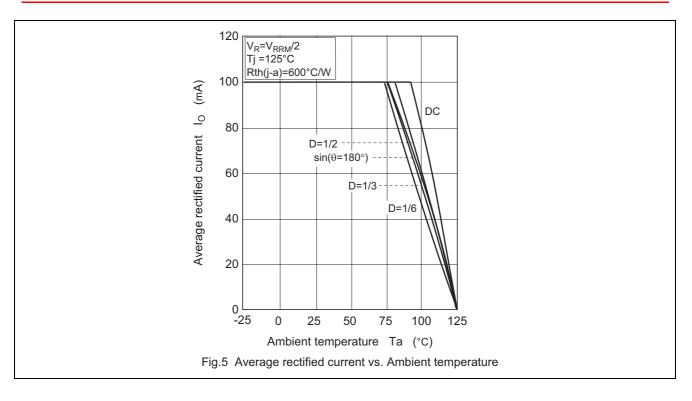
Notes: 1. Polyimide board



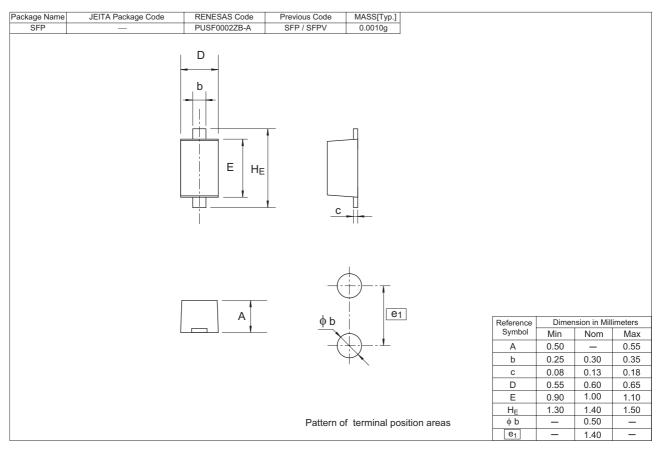
2. For SFP package, the material of lead is exposed for cutting plane. There for, soldering nature of lead tip part is considered as unquestioned. Please kindly consider soldering nature.

Main Characteristic





Package Dimensions



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