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Silicon Schottky Barrier Diode for Rectifying



ADE-208-1518B (Z)

Rev.2 Nov. 2002

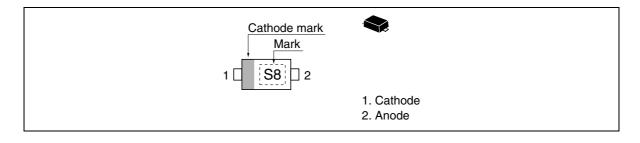
Features

- Low forward voltage drop and suitable for high efficiency rectifying.
- Ultra small Flat Package (UFP) is suitable for surface mount design.

Ordering Information

Type No.	Laser Mark	Package Code
HRC0203C	S8	UFP

Pin Arrangement



Absolute Maximum Ratings

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

Item	Symbol	Value	Unit	
Repetitive peak reverse voltage	V _{RRM} *1	30	V	
Average rectified current	I ₀ *1	200	mA	
Non-Repetitive peak forward surge current	I _{FSM} *2	2	Α	
Junction temperature	Tj	125	°C	
Storage temperature	Tstg	-55 to +125	°C	

Notes: 1. See from Fig.3 to Fig.5, with polyimide board.

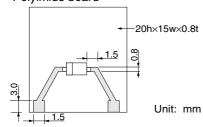
2. 10 msec sine wave 1 pulse.

Electrical Characteristics

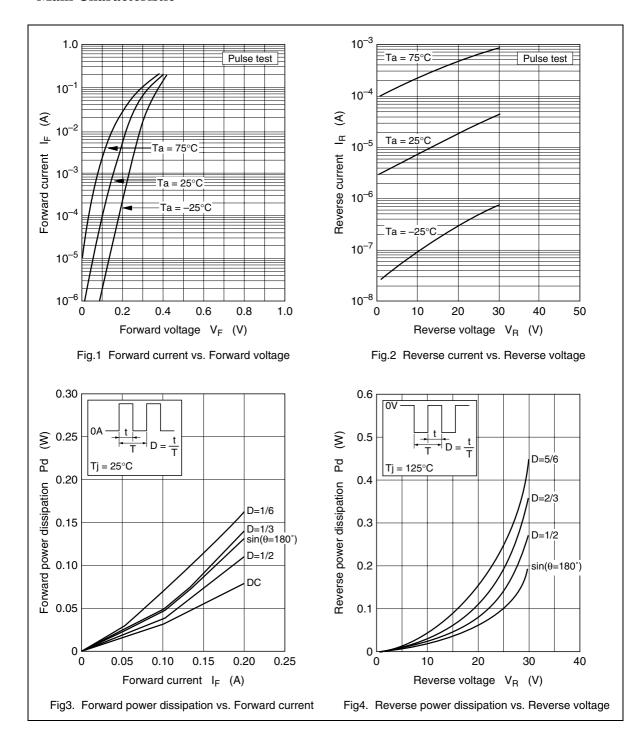
 $(Ta = 25^{\circ}C)$

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Forward voltage	$V_{\rm F1}$	_	_	0.25	V	$I_F = 5 \text{ mA}$
	V _{F2}	_	_	0.45		I _F = 200 mA
Reverse current	I _R	_	_	30	μΑ	V _R = 10 V
Thermal resistance	Rth(j-a)	_	550	_	°C/W	Polyimide board *1

Note: 1. Polyimide board



Main Characteristic



Main Characteristic (cont)

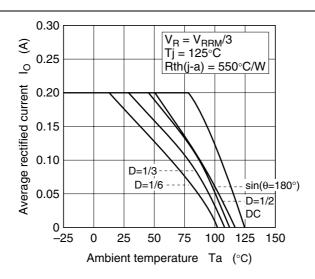


Fig.5 Average rectified current vs. Ambient temperature

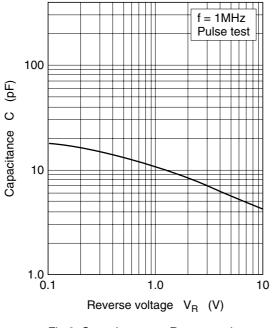
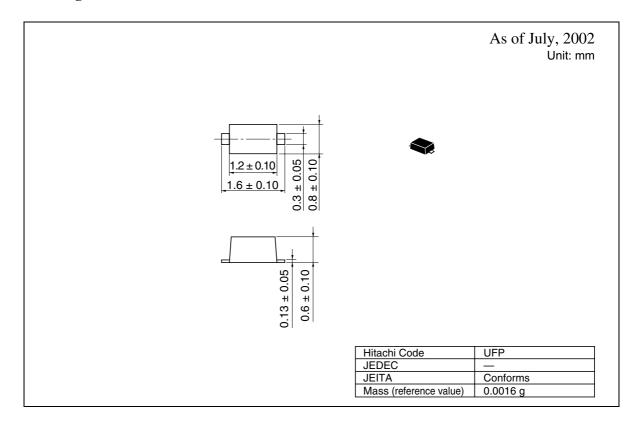


Fig.6 Capacitance vs. Reverse voltage

Package Dimensions



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