
HRW1002B

Silicon Schottky Barrier Diode for Rectifying

HITACHI

ADE-208-241A (Z)

Rev. 1

Aug. 1994

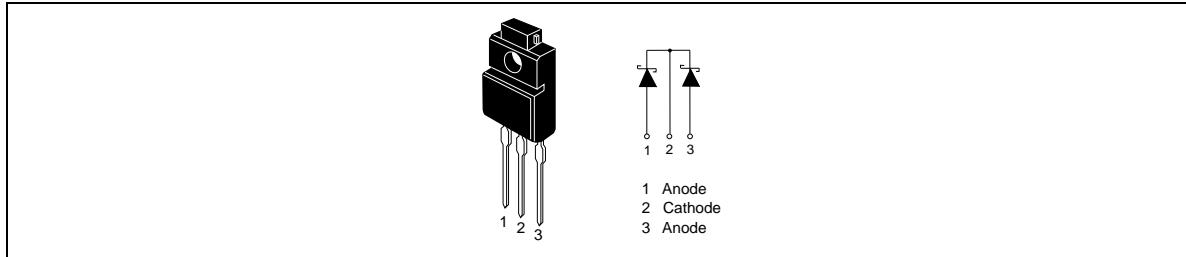
Features

- Low forward voltage drop and suitable for high efficiency rectifying.
- Full molded fin enables easy insulation from heat sink.

Ordering Information

Type No.	Laser Mark	Package Code
HRW1002B	W1002B	TO-220FM

Pin Arragement



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Absolute Maximum Ratings (Ta = 25°C)*¹

Item	Symbol	Value	Unit
Repetitive peak reverse voltage	V _{RRM} ^{*2}	20	V
Average forward current	I _o ^{*3}	10	A
Non-Repetitive peak forward surge current	I _{FSM} ^{*4}	75	A
Junction temperature	T _j	125	°C
Storage temperature	T _{stg}	-40 to +125	°C

- Notes:
1. Per one device
 2. See Fig.5
 3. Square wave, Duty (1/2), Sum of two devices See Fig.4
 4. Sine wave 10msec

Electrical Characteristics (Ta = 25°C)*

Item	Symbol	Min	Typ	Max	Unit	Test Condition
Forward voltage	V _F	—	—	0.42	V	I _F = 5.0A
Reverse current	I _R	—	—	1.0	mA	V _R = 20V
ESD-capability	—	500	—	—	V	C = 200pF Both forward and reverse direction 1 pulse
Thermal resistance	R _{th} (j-c)	—	3.0	—	°C/W	

Note: Per one device

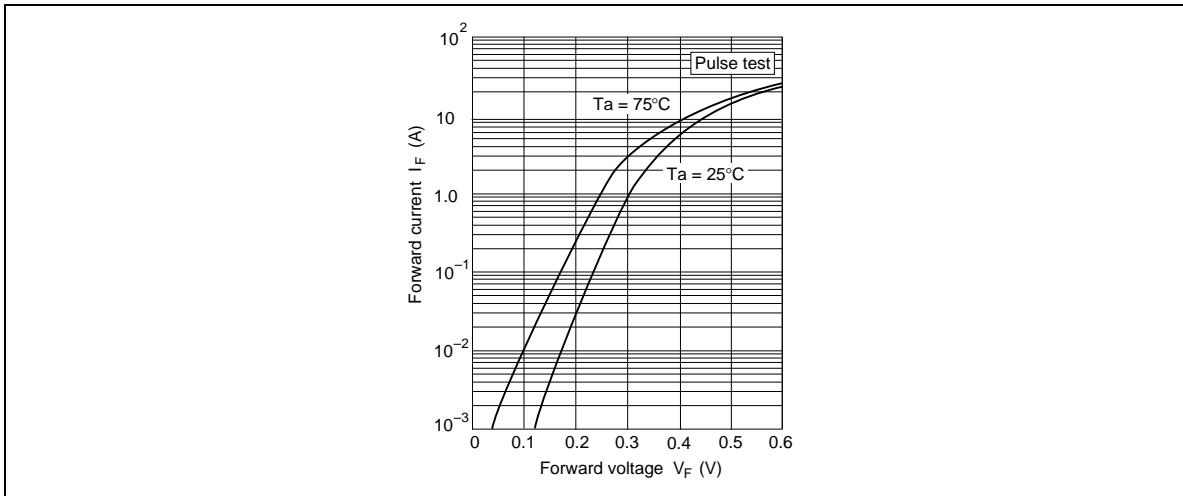


Fig.1 Forward current Vs. Forward voltage

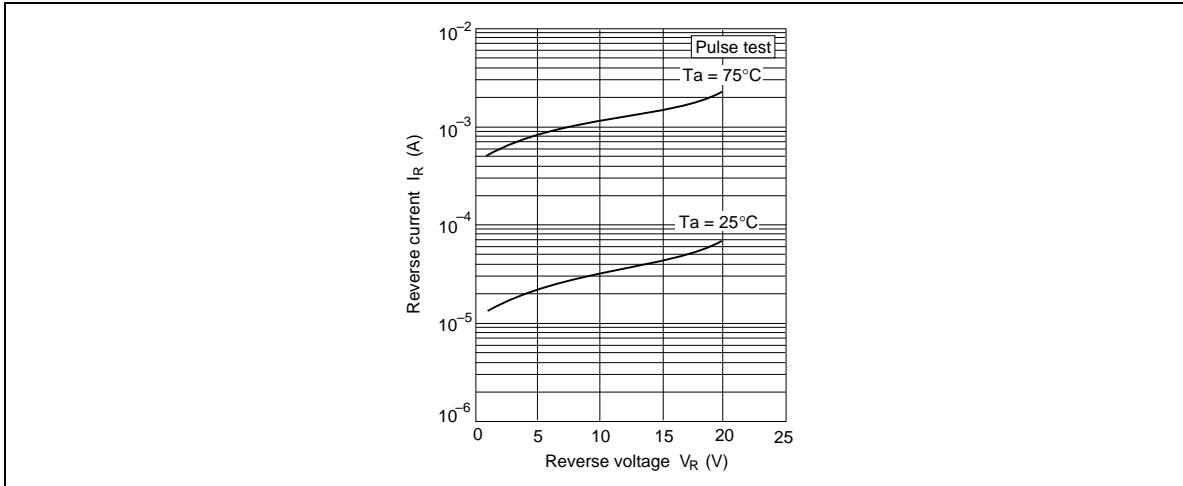


Fig.2 Reverse current Vs. Reverse voltage

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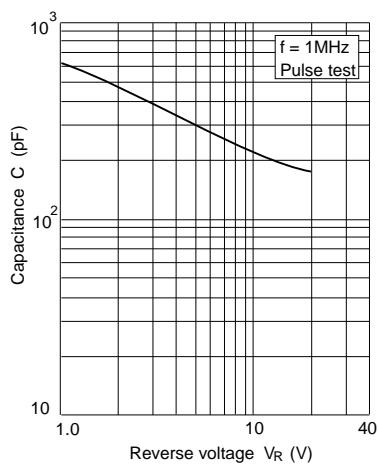


Fig.3 Capacitance Vs. Reverse voltage

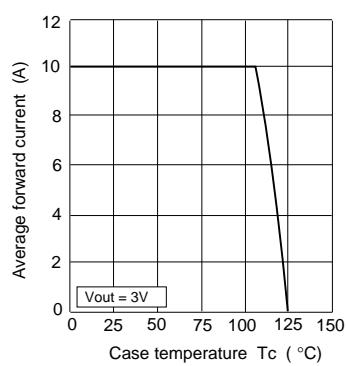


Fig.4 Average forward current Vs. Case temperature

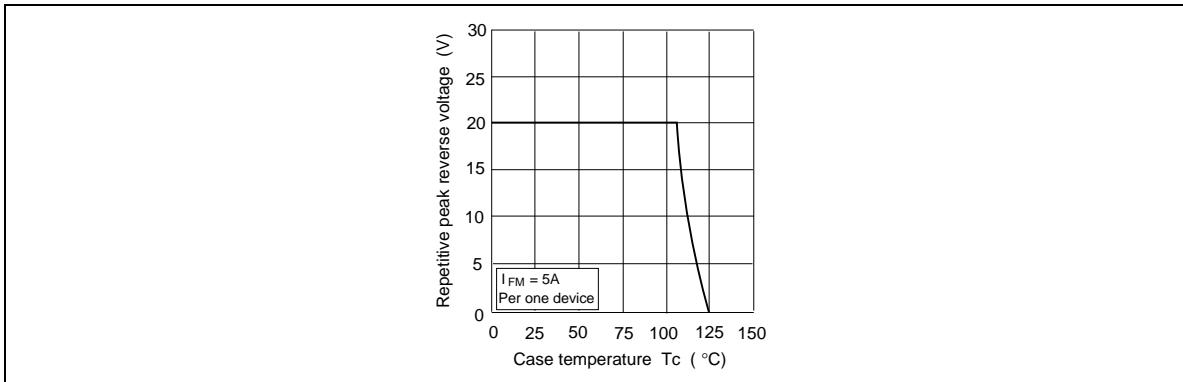


Fig.5 Repetitive peak reverse voltage Vs. Case temperature

Package Dimensions

