

HRW0702A

Silicon Schottky Barrier Diode for Rectifying

HITACHI

Rev. 4
Nov. 1994

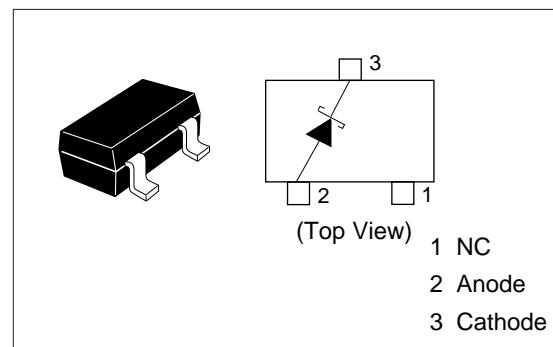
Features

- Low forward voltage drop and suitable for high efficiency rectifying.
- MPAK package is suitable for high density surface mounting and high speed assembly.

Ordering Information

Type No.	Laser Mark	Package Code
HRW0702A	S15	MPAK

Pin Arrangement



Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Item	Symbol	Value	Unit
Repetitive peak reverse voltage	V_{RRM}^*	20	V
Forward current	I_F^*	700	mA
Non-Repetitive peak forward current	I_{FM}	1.4	A
Non-Repetitive peak forward surge current	I_{FSM}^{**}	5	A
Junction temperature	T_j	125	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to +125	$^\circ\text{C}$

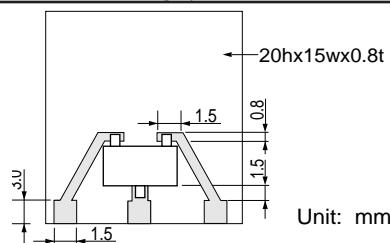
* See Fig.4 & Fig.5

** 10msec half sine wave 1 pulse

Electrical Characteristics ($T_a = 25^\circ\text{C}$)

Item	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse current	I_R	—	—	200	μA	$V_R = 20 \text{ V}$
Forward voltage	V_F	—	—	0.43	V	$I_F = 700 \text{ mA}$
Capacitance	C	—	120	—	pF	$V_R = 0\text{V}, f = 1\text{MHz}$
Thermal resistance	$R_{th(j-a)}$	—	340	—	$^\circ\text{C/W}$	Polyimide substrate *

* Polyimide PCB



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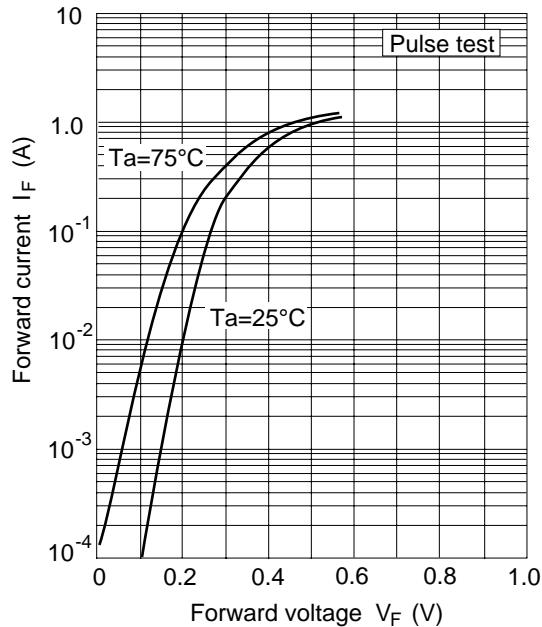


Fig.1 Forward current Vs.
Forward voltage

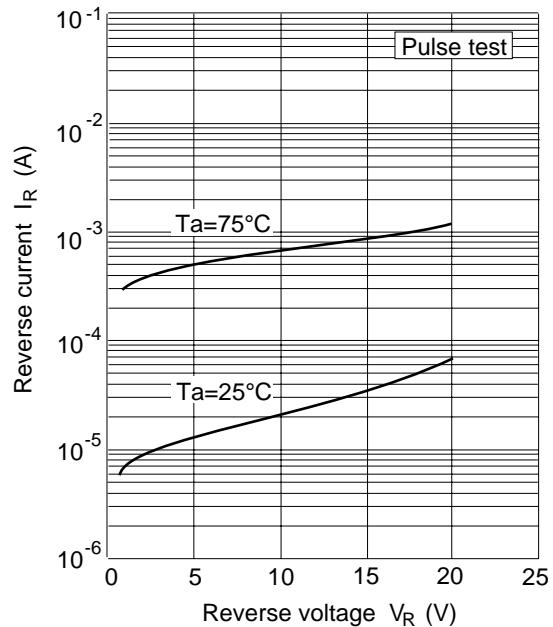


Fig.2 Reverse current Vs.
Reverse voltage

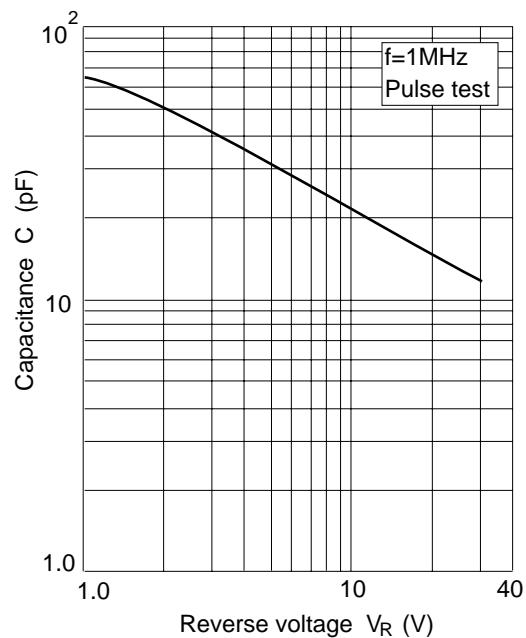
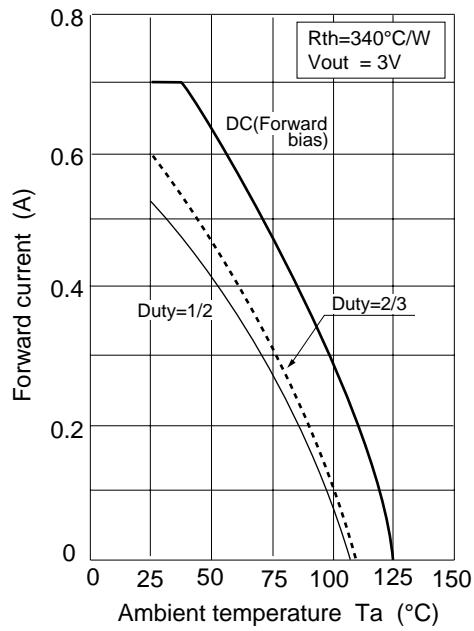


Fig.3 Capacitance Vs.
Reverse voltage



**Fig.4 Forward current
Vs. Ambient temperature**

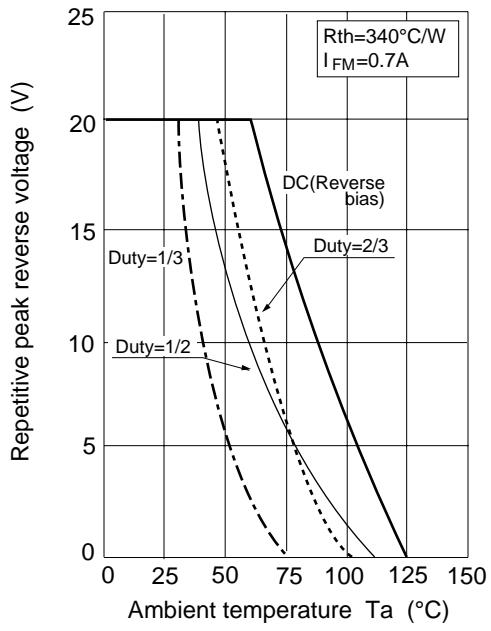


Fig.5 Repetitive peak reverse voltage Vs. Ambient temperature

Package Dimensions

Unit: mm

