

# HRW0703A

## Silicon Schottky Barrier Diode for Rectifying

# HITACHI

Rev. 4  
Nov. 1994

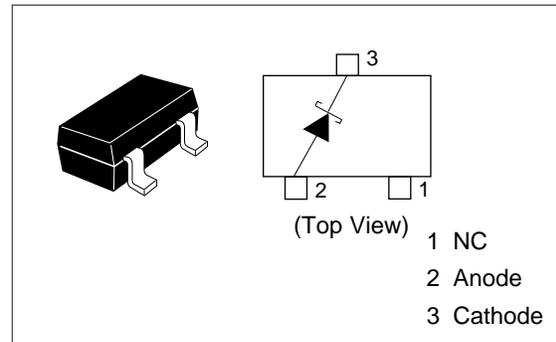
### Features

- 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
HRW0703A	S 8	MPAK

### Pin Arrangement



### Absolute Maximum Ratings (Ta = 25°C)

Item	Symbol	Value	Unit
Repetitive peak reverse voltage	$V_{RRM}^*$	30	V
Forward current	$I_F^*$	700	mA
Non-Repetitive peak forward surge current	$I_{FSM}^{**}$	5	A
Junction temperature	$T_j$	125	°C
Storage temperature	$T_{stg}$	-55 to +125	°C

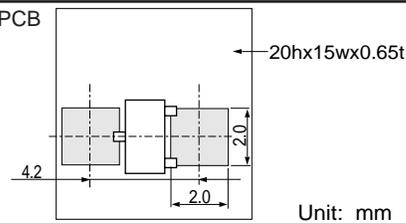
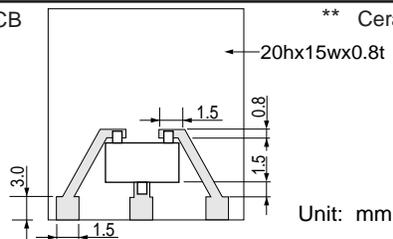
\* See Fig.4 & Fig.5    \*\* 50Hz sine wave 1 pulse

### Electrical Characteristics (Ta = 25°C)

Item	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse current	$I_R$	—	—	100	$\mu A$	$V_R = 30 V$
Forward voltage	$V_F$	—	—	0.5	V	$I_F = 700 mA$
Capacitance	C	—	150	—	pF	$V_R = 0V, f = 1MHz$
Thermal resistance	$R_{th1(j-a)}$	—	390	—	°C/W	Polyimide substrate *
	$R_{th2(j-a)}$	—	290	—	°C/W	Ceramic substrate **

\* Polyimide PCB

\*\* Ceramic PCB



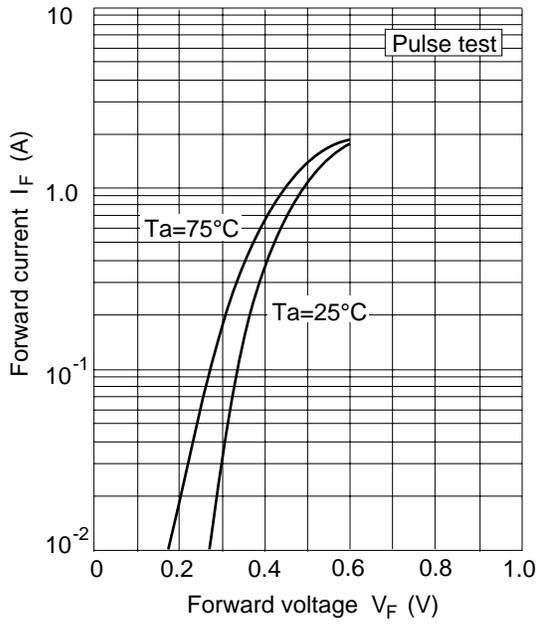


Fig.1 Forward current Vs. Forward voltage

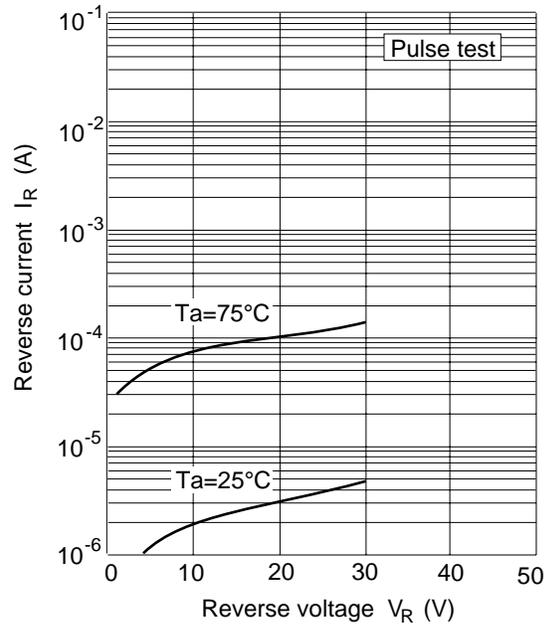


Fig.2 Reverse current Vs. Reverse voltage

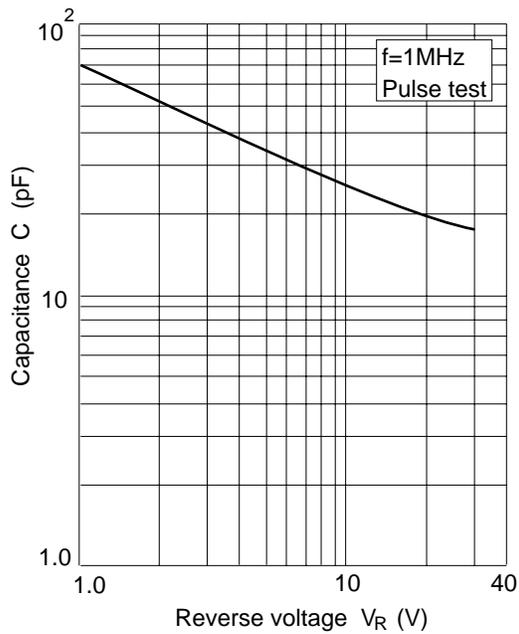
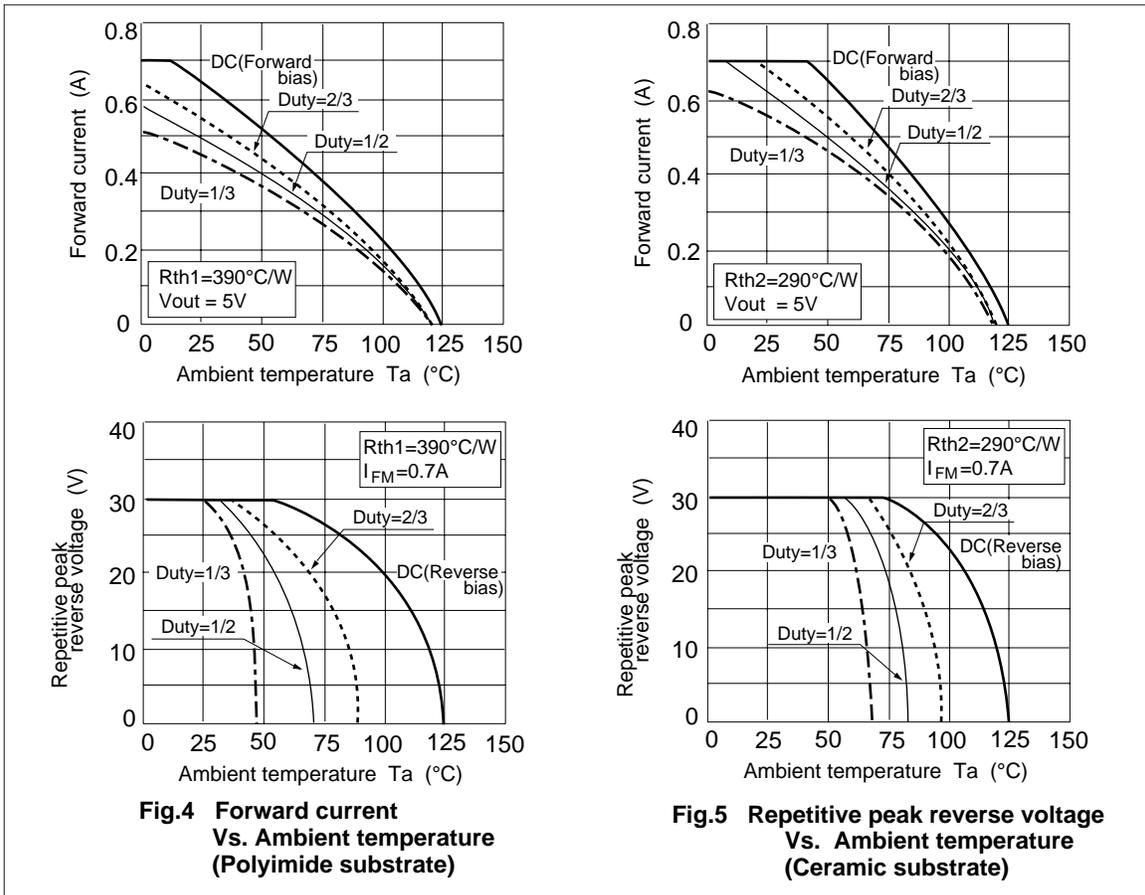


Fig.3 Capacitance Vs. Reverse voltage



Package Dimensions

Unit: mm

