## Silicon Schottky Barrier Diode for Rectifying

# HITACHI

ADE-208-108E(Z) Rev 5 Oct. 1997

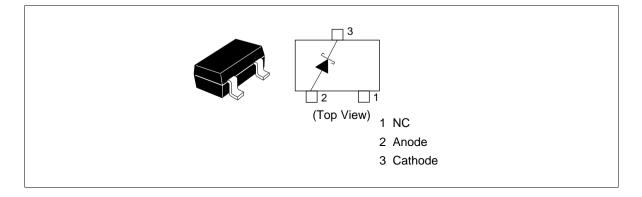
#### Features

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

#### **Ordering Information**

Туре No.	Laser Mark	Package Code
HRW0502A	S10	МРАК

#### Outline





## Absolute Maximum Ratings (Ta = $25^{\circ}$ C)

Item	Symbol	Value	Unit
Repetitive peak reverse voltage	V <sub>RRM</sub> <sup>*1</sup>	20	V
Average rectified current	I <sub>0</sub> *1	500	mA
Non-Repetitive peak forward surge current	I <sub>FSM</sub> <sup>*2</sup>	5	A
Junction temperature	Tj	125	°C
Storage temperature	Tstg	-55 to +125	°C

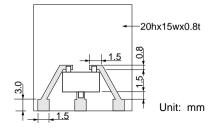
Notes 1. See from Fig.4 to Fig.6

Notes 2. 10msec sine wave 1 pulse

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

ltem	Symbol	Min	Тур	Мах	Unit	Test Condition
Forward voltage	V <sub>F</sub>	_	_	0.4	V	I <sub>F</sub> = 500 mA
Reverse current	I <sub>R</sub>			200	μA	V <sub>R</sub> = 20V
Capacitance	С	—	120		pF	$V_R = 0V, f = 1 MHz$
Thermal resistance	$R_{th(j-a)}$		340	_	°C/W	Polyimide board <sup>*1</sup>

Notes 1. Polyimide board



## Main Characteristic

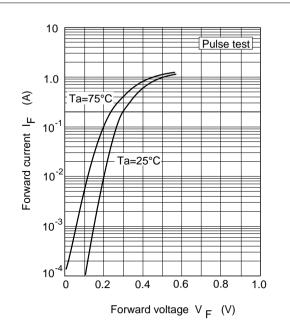
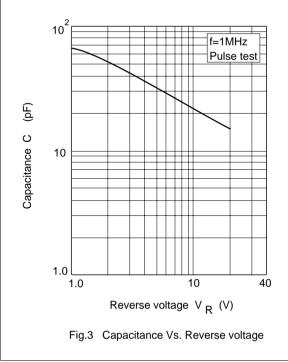
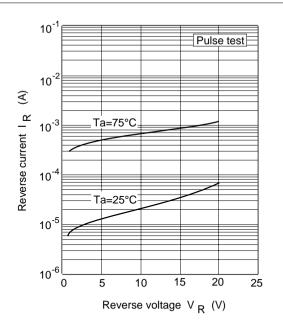


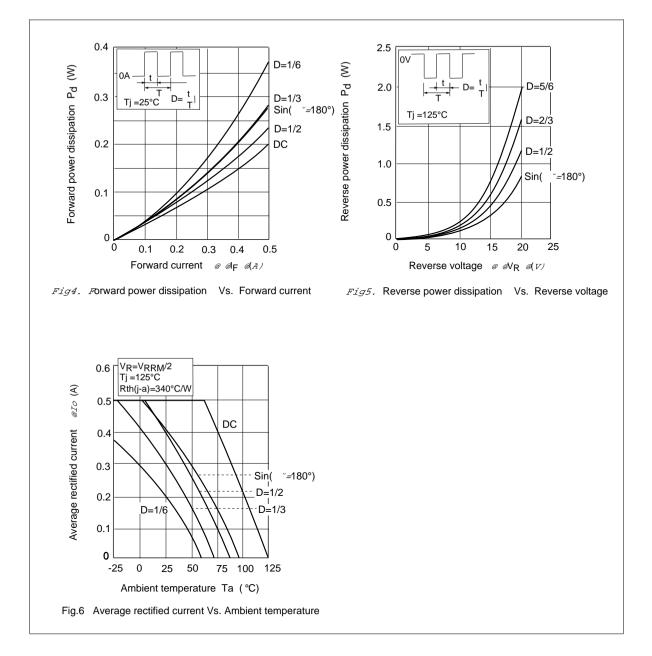
Fig.1 Forward current Vs. Forward voltage







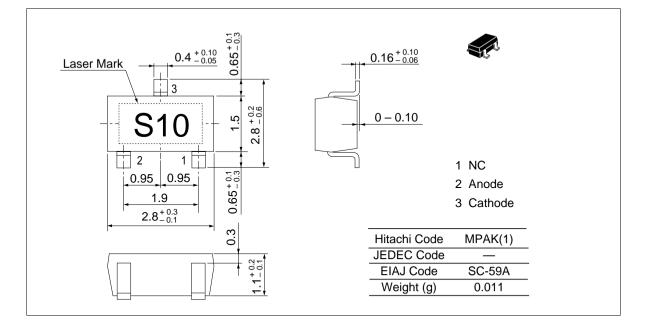
### **Main Characteristic**



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## **Package Dimensions**

Unit : mm



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