Silicon Schottky Barrier Diode for Various Detector, High Speed Switching

# HITACHI

ADE-208-153A (Z)

Rev. 1 Oct. 1998

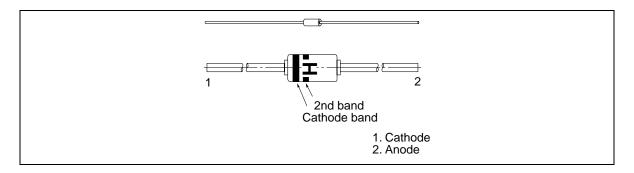
#### Features

- Detection efficiency is very good.
- Small temperature coefficient.
- High reliability with glass seal.

### **Ordering Information**

Type No.	Cathode	2nd band	Mark	Package Code
1SS106	White	White	Н	DO-35

#### Outline





# **Absolute Maximum Ratings**

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

Item	Symbol	Value	Unit
Reverse voltage	V <sub>R</sub>	10	V
Average rectified current	I <sub>o</sub>	30	mA
Junction temperature	Тј	125	°C
Storage temperature	Tstg	–55 to +125	°C

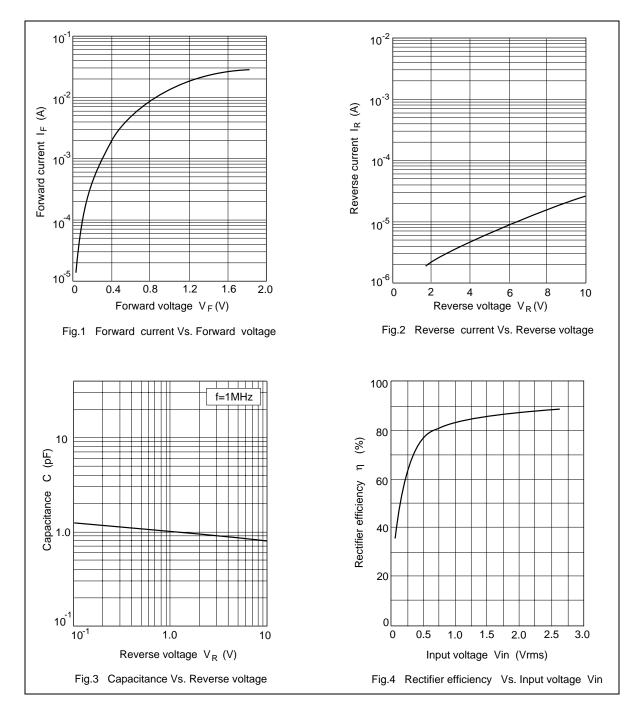
### **Electrical Characteristics**

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

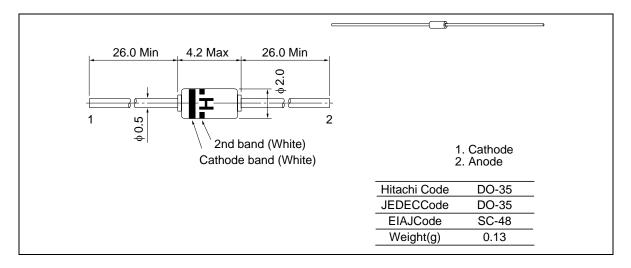
Item	Symbol	Min	Тур	Max	Unit	Test Condition
Forward current	I <sub>F</sub>	4.5	_	_	mA	$V_{\rm F} = 1V$
Reverse current	I <sub>R</sub>	_	_	70	μA	V <sub>R</sub> = 6V
Capacitance	С	_	_	1.5	pF	$V_{R} = 1V, f = 1MHz$
Rectifier efficiency	η	70	—	_	%	Vin = 2Vrms, f = 40MHz, $R_L = 5k\Omega$ , $C_L = 20pF$
ESD-Capability <sup>*1</sup>	_	100	—	_	V	C = 200pF, Both forward and reverse direction 1 pulse.

Notes: 1. Failure criterion;  $I_{_R} \ge 140 \mu A$  at  $V_{_R} = 6V$ 

### **Main Characteristic**



# **Package Dimensions**



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