Silicon Epitaxial Planar Diode for High Speed Switching

# HITACHI

ADE-208-145B (Z)

Rev.2 Oct. 2000

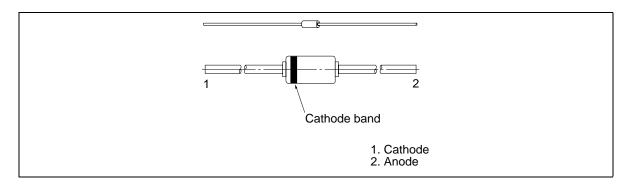
### Features

- Low capacitance. (C = 3.0 pF max)
- Short reverse recovery time.  $(t_{rr} = 8.0 \text{ ns max})$
- High reliability with glass seal.

### **Ordering Information**

Туре No.	Cathode band	Package Code
1S2076	Light Blue	DO-35

Outline





## **Absolute Maximum Ratings**

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

Item	Symbol	Value	Unit	
Peak reverse voltage	V <sub>RM</sub>	35	V	
Reverse voltage	V <sub>R</sub>	30	V	
Peak forward current	I FM	450	mA	
Non-Repetitive peak forward surge current	I *	1	А	
Average forward current	I <sub>o</sub>	150	mA	
Power dissipation	Pd	250	mW	
Junction temperature	Tj	175	°C	
Storage temperature	Tstg	-65 to +175	°C	

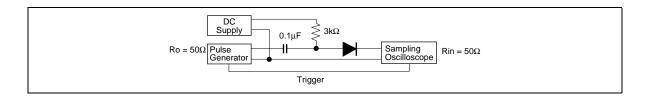
Note: Within 1s forward surge current.

## **Electrical Characteristics**

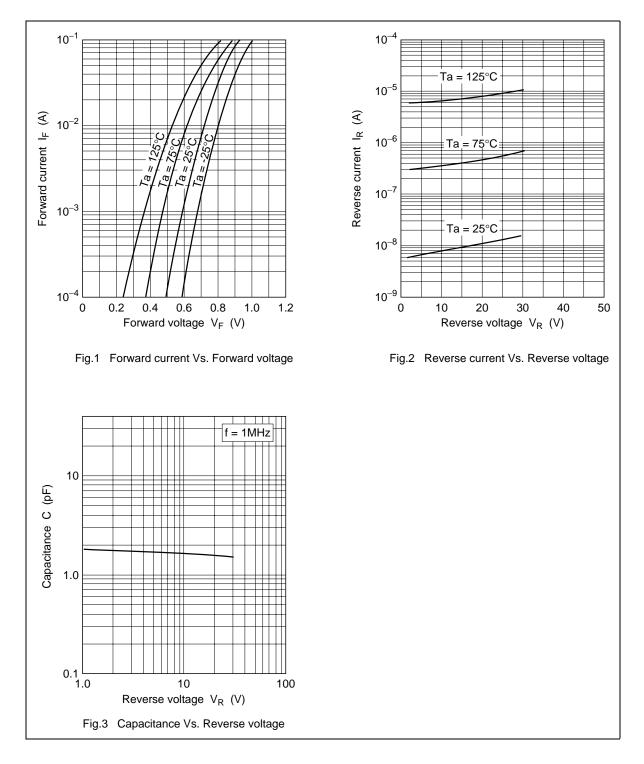
 $(Ta = 25^{\circ}C)$ 

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Forward voltage	V <sub>F</sub>	0.64	_	0.8	V	I <sub>F</sub> = 10 mA
Reverse current	I <sub>R</sub>	_	_	0.1	μA	V <sub>R</sub> = 30 V
Capacitance	С	_	_	3.0	pF	V <sub>R</sub> = 1 V, f = 1 MHz
Reverse recovery time	t <sub>rr</sub> *	_	_	8.0	ns	$I_{_{\rm F}} = I_{_{\rm R}} = 10 \text{ mA}, \text{ Irr} = 1 \text{ mA}$

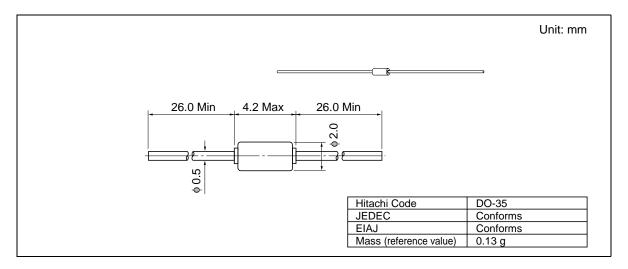
Note: Reverse recovery time test circuit



# Main Characteristic



# **Package Dimensions**



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