# **1SS270**

## Silicon Epitaxial Planar Diode for High Speed Switching

# **HITACHI**

ADE-208-165B (Z)

Rev.2 Oct. 2000

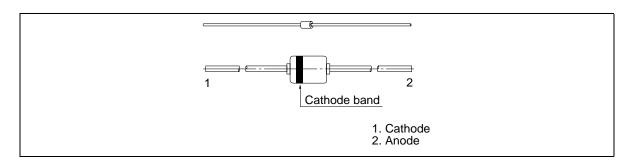
#### **Features**

- Low capacitance. (C = 3.0 pF max)
- Short reverse recovery time.  $(t_{rr} = 3.5 \text{ ns max})$
- Small glass package (MHD) enables easy mounting and high reliability.

#### **Ordering Information**

Type No.	Cathode band	Package Code
1SS270	Light Blue	MHD

#### **Outline**





## **1SS270**

## **Absolute Maximum Ratings**

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

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

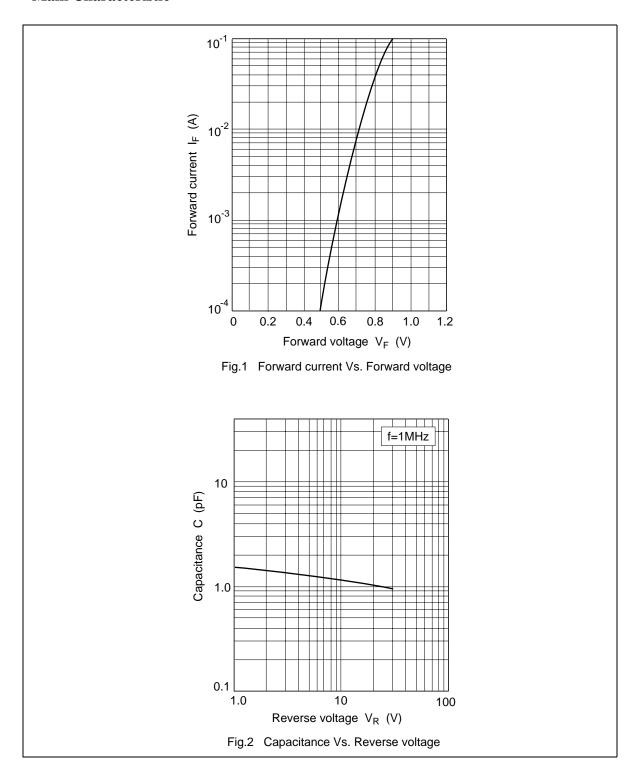
Note: Within 1s forward surge current.

#### **Electrical Characteristics**

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

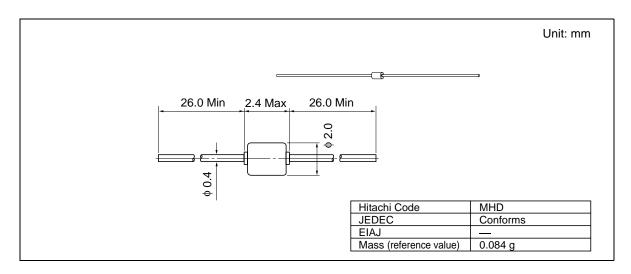
Item	Symbol	Min	Тур	Max	Unit	Test Condition
Forward voltage	$V_{_{\rm F}}$	_	_	0.8	V	I <sub>F</sub> = 10 mA
Reverse current	I <sub>R</sub>	_	_	1.0	μΑ	V <sub>R</sub> = 30 V
Capacitance	С	_	_	3.0	pF	V <sub>R</sub> = 1 V, f = 1 MHz
Reverse recovery time	t <sub>rr</sub>	_	_	3.5	ns	$I_{F} = 10 \text{ mA}, V_{R} = 6 \text{ V}, R_{L} = 50 \Omega$

#### **Main Characteristic**



## **1SS270**

## **Package Dimensions**



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