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# 1SS286

Silicon Schottky Barrier Diode for Various Detector,  
High Speed Switching

# HITACHI

ADE-208-302A (Z)

Rev. 1  
Sep. 1995

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## Features

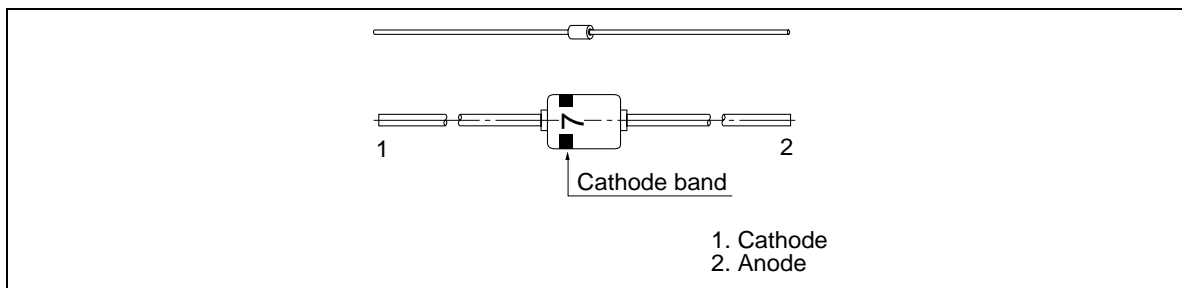
- Very low reverse current.
- Detection efficiency is very good.
- Small glass package (MHD) enables easy mounting and high reliability.

## Ordering Information

Type No.	Cathode band	Mark	Package Code
1SS286	Green	7	MHD

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## Outline



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# 1SS286

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## Absolute Maximum Ratings

(Ta = 25°C)

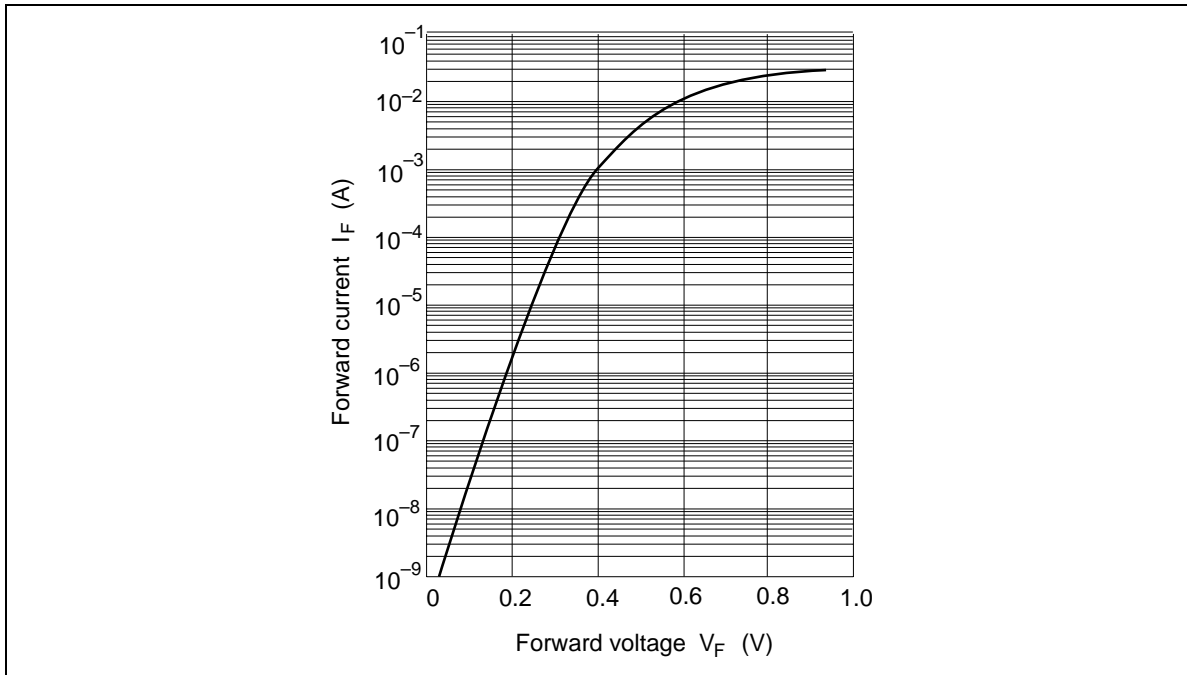
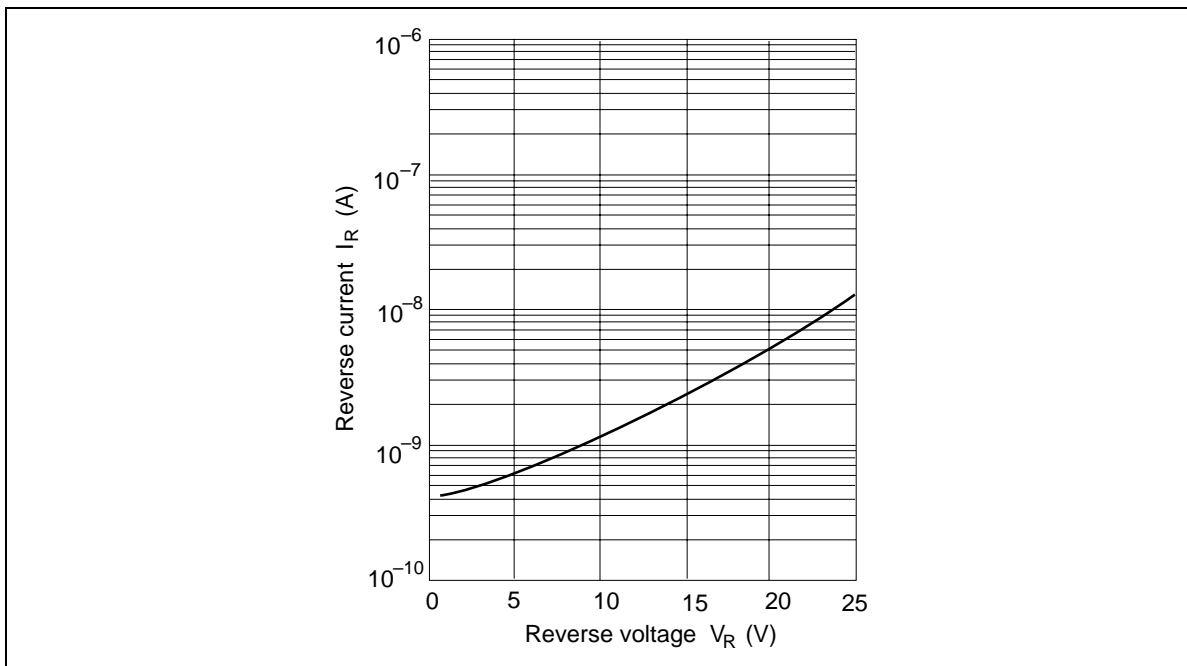
Item	Symbol	Value	Unit
Reverse voltage	$V_R$	25	V
Forward current	$I_F$	35	mA
Power dissipation	$P_d$	150	mW
Junction temperature	$T_j$	100	°C
Storage temperature	$T_{stg}$	-55 to +100	°C

## Electrical Characteristics

(Ta = 25°C)

Item	Symbol	Min	Typ	Max	Unit	Test Condition
Forward voltage	$V_F$	—	—	0.6	V	$I_F = 10\text{mA}$
Reverse voltage	$V_R$	25	—	—	V	$I_R = 10\mu\text{A}$
Reverse current	$I_R$	—	—	10	nA	$V_R = 10\text{V}$
Capacitance	$C$	—	—	1.2	pF	$V_R = 0\text{V}$ , $f = 1\text{MHz}$
Capacitance deviation	$\Delta C$	—	—	0.1	pF	$V_R = 0\text{V}$ , $f = 1\text{MHz}$
Forward voltage deviation	$\Delta V_F$	—	—	10	mV	$I_F = 10\text{mA}$
ESD-Capability	—	10	—	—	V	*1C = 200pF, Both forward and reverse direction 1 pulse.

Notes: 1. Failure criterion;  $I_R \geq 20\mu\text{A}$   
2. Each group shall unify a multiple of 4 diodes

**Fig.1 Forward current Vs. Forward voltage****Fig.2 Reverse current Vs. Reverse voltage**

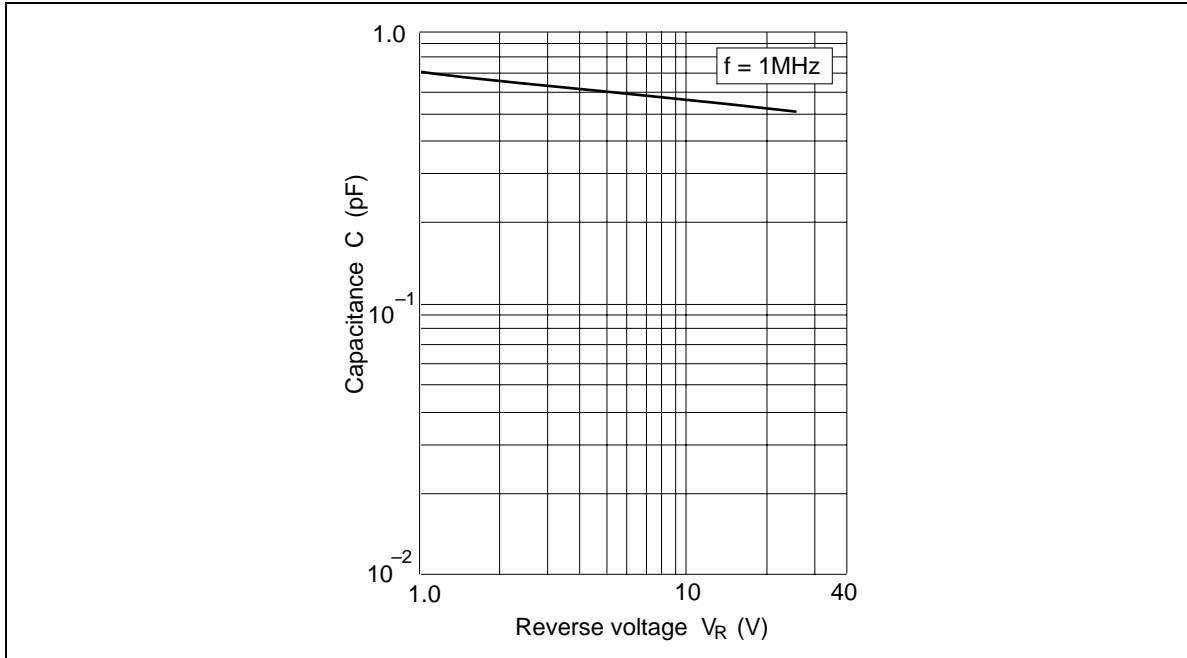
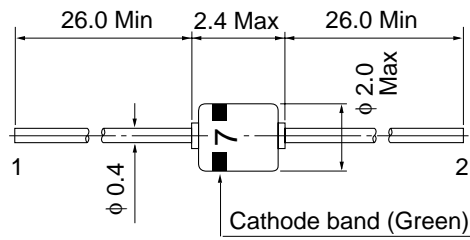


Fig.3 Capacitance Vs. Reverse voltage

Package Dimensions

Unit: mm



- 1 Cathode
- 2 Anode

HITACHI Code	MHD
JEDEC Code	DO-34
EIAJ Code	—
Weight (g)	0.084

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