

1SS286

Silicon Schottky Barrier Diode for Various Detector,
High Speed Switching

HITACHI

ADE-208-302A (Z)

Rev. 1
Sep. 1995

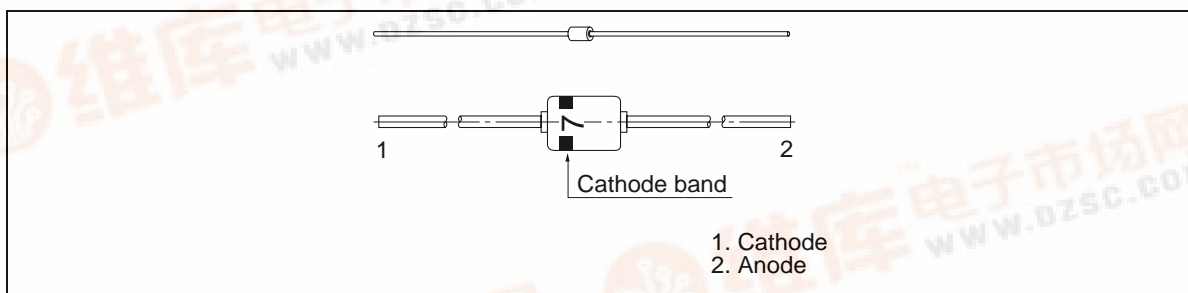
Features

- 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

Outline



1SS286

Absolute Maximum Ratings

(Ta = 25°C)

Item	Symbol	Value	Unit
Reverse voltage	V_R	25	V
Forward current	I_F	35	mA
Power dissipation	Pd	150	mW
Junction temperature	Tj	100	°C
Storage temperature	Tstg	-55 to +100	°C

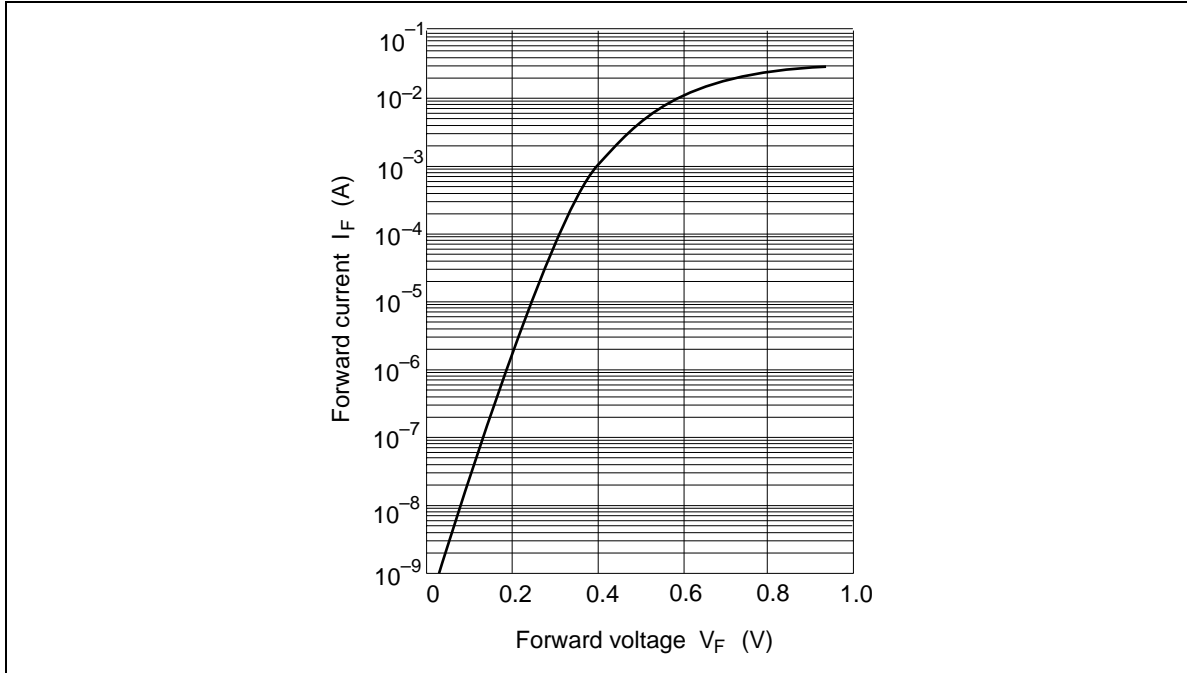
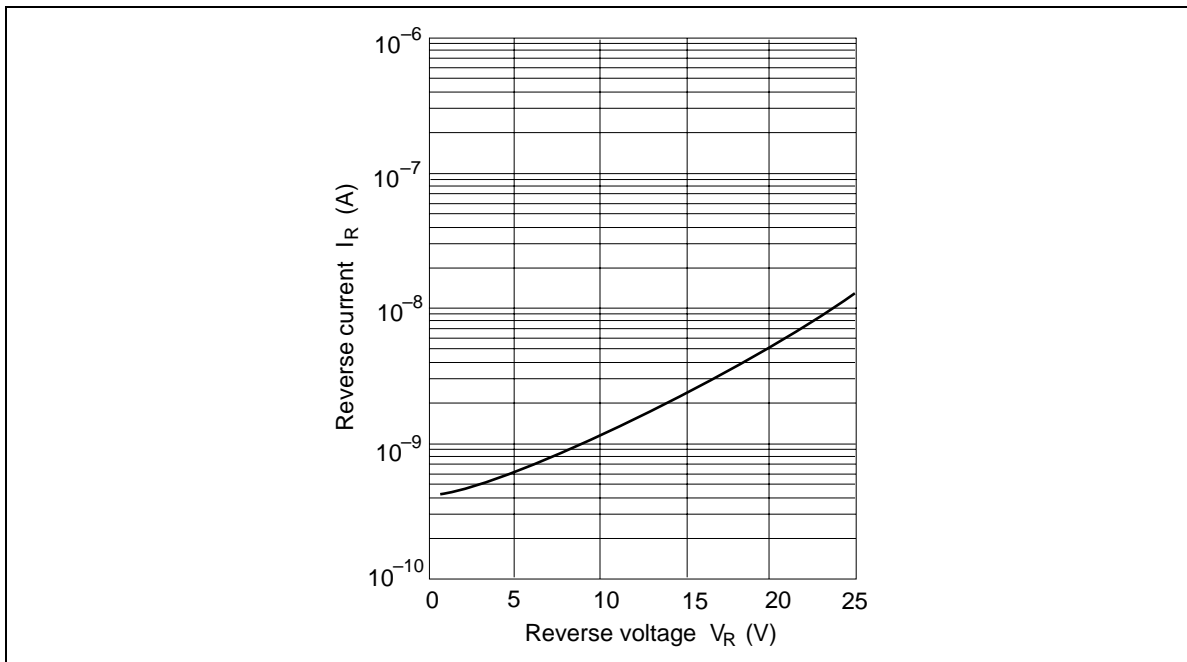
Electrical Characteristics

(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	ΔC	—	—	0.1	pF	$V_R = 0\text{V}$, $f = 1\text{MHz}$
Forward voltage deviation	ΔV_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**

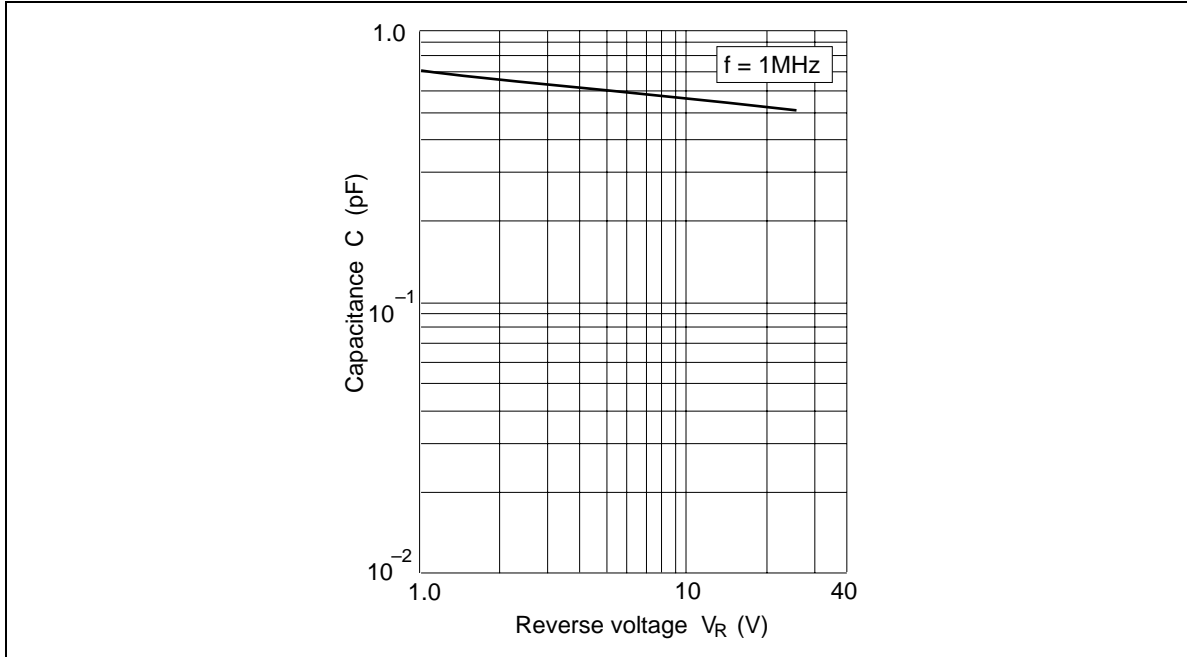
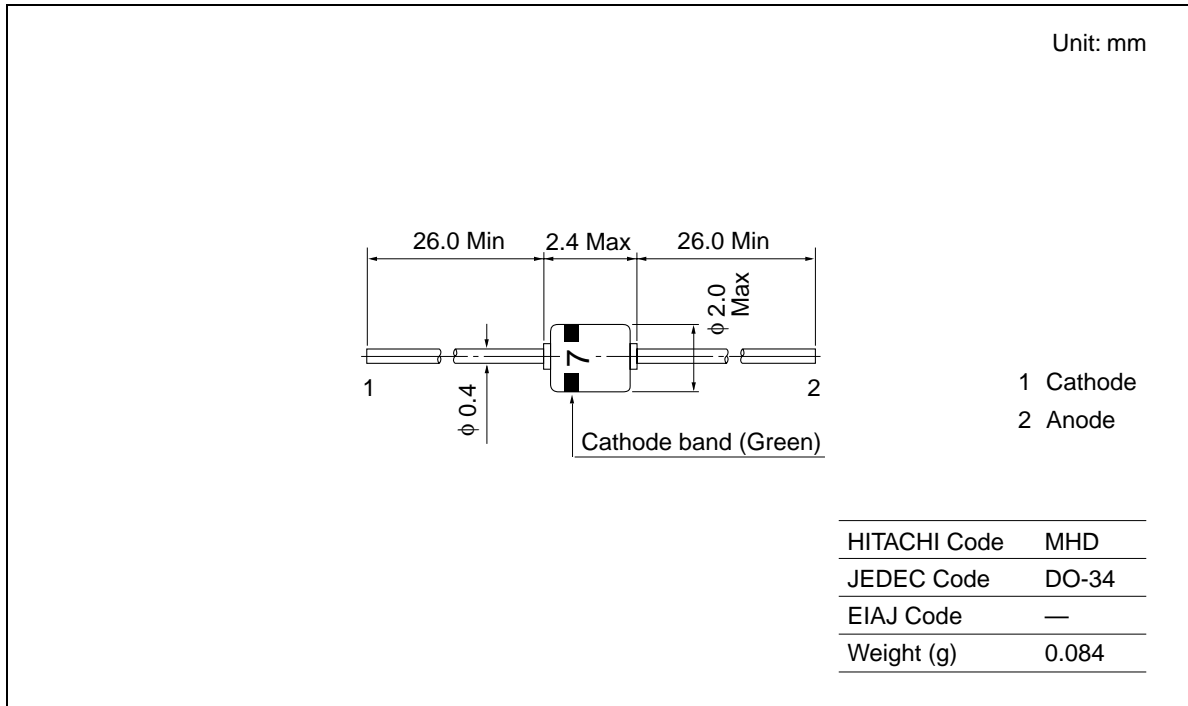


Fig.3 Capacitance Vs. Reverse voltage

Package Dimensions



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