

1SS174

Silicon Schottky Barrier Diode for UHF TV Tuner Mixer,
Various Detector, High speed switching

HITACHI

ADE-208-398 (Z)
Rev. 0

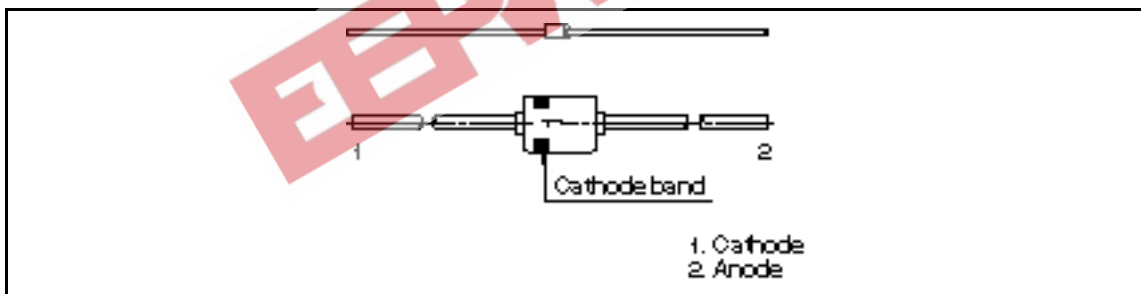
Features

- Low capacitance. ($C = 1.2\text{pF max}$)
- Small glass package (MHD) enables easy mounting and high reliability.

Ordering Information

Type No.	Cathode band	Mark	Package Code
1SS174	Green	1	MHD

Outline



Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Item	Symbol	Value	Unit
Reverse voltage	V_R	3	V
Average forward current	I_o	30	mA
Power dissipation	P_d	150	mW
Junction temperature	T_j	100	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to +100	$^\circ\text{C}$

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Electrical Characteristics (Ta = 25°C)

Item	Symbol	Min	Typ	Max	Unit	Test Condition
Forward current	I_F	35	—	—	mA	$V_F = 0.5V$
Reverse voltage	V_R	3	—	—	V	$I_R = 1mA$
Reverse current	I_R	—	—	50	μA	$V_R = 0.5V$
Capacitance	C	—	—	1.2	pF	$V_R = 0.5V, f = 1MHz$
ESD-Capability	—	30	—	—	V	*C = 200pF, Both forward and reverse direction 1 pulse.

Note: Failure criterion; I_R 50 μA

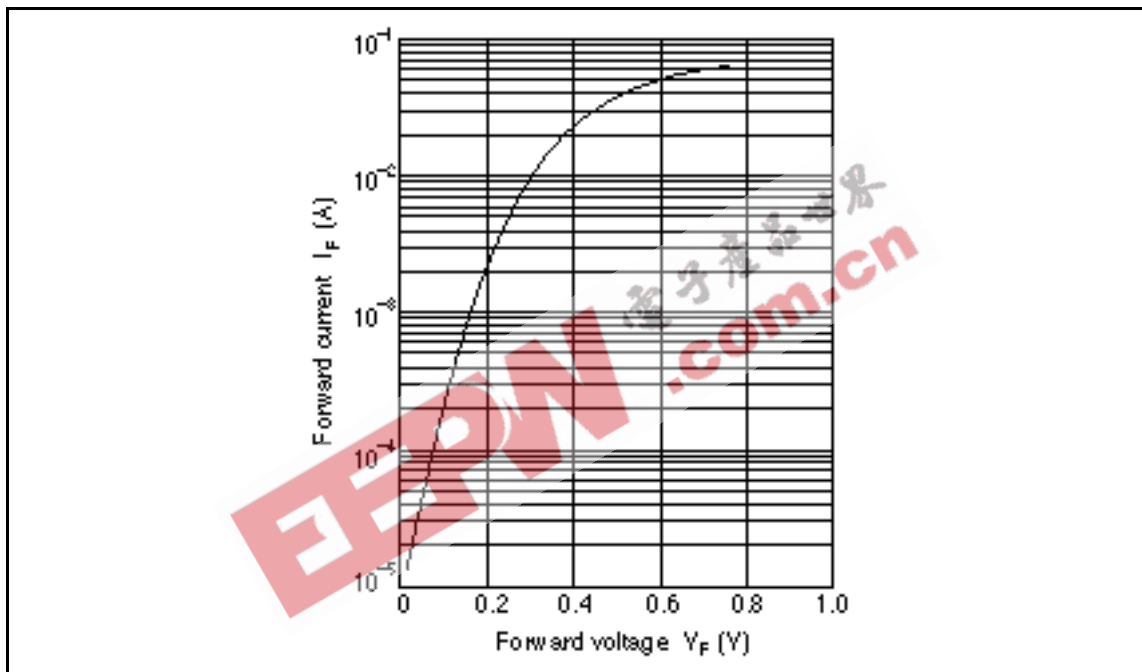


Fig.1 Forward current Vs. Forward voltage

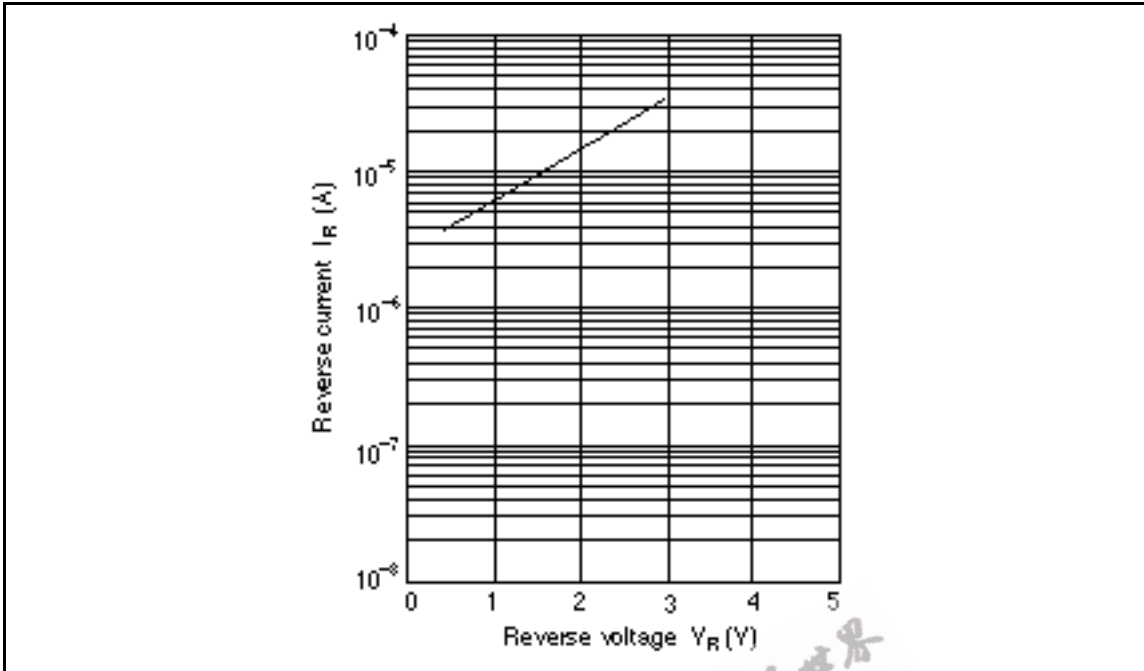


Fig.2 Reverse current Vs. Reverse voltage

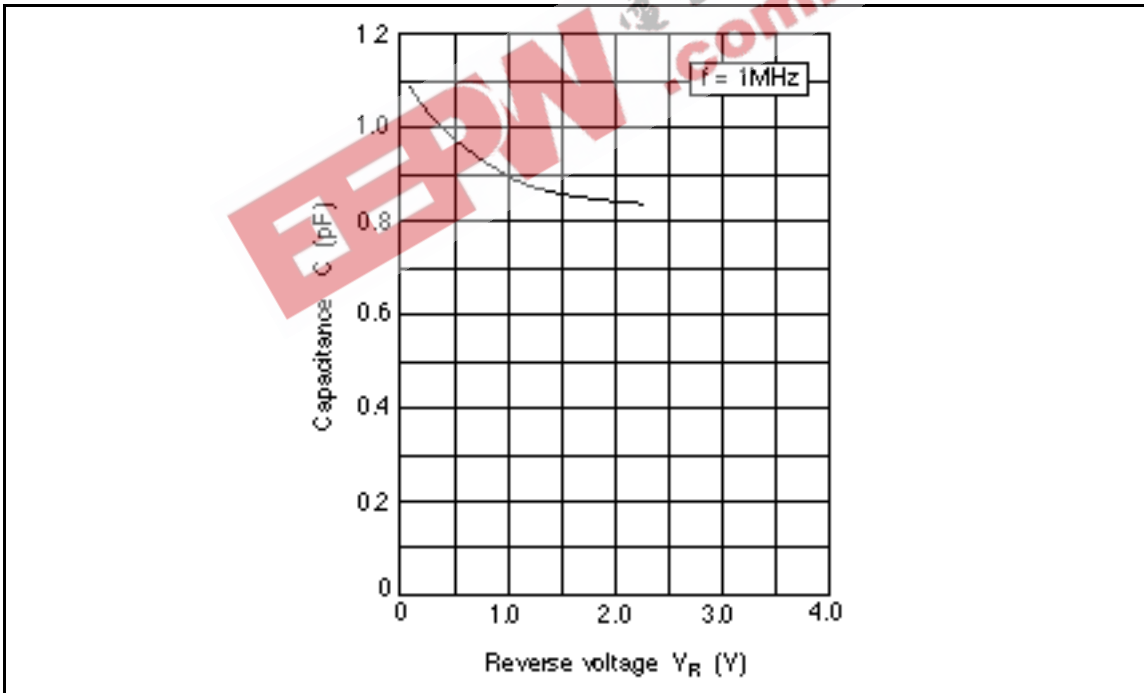
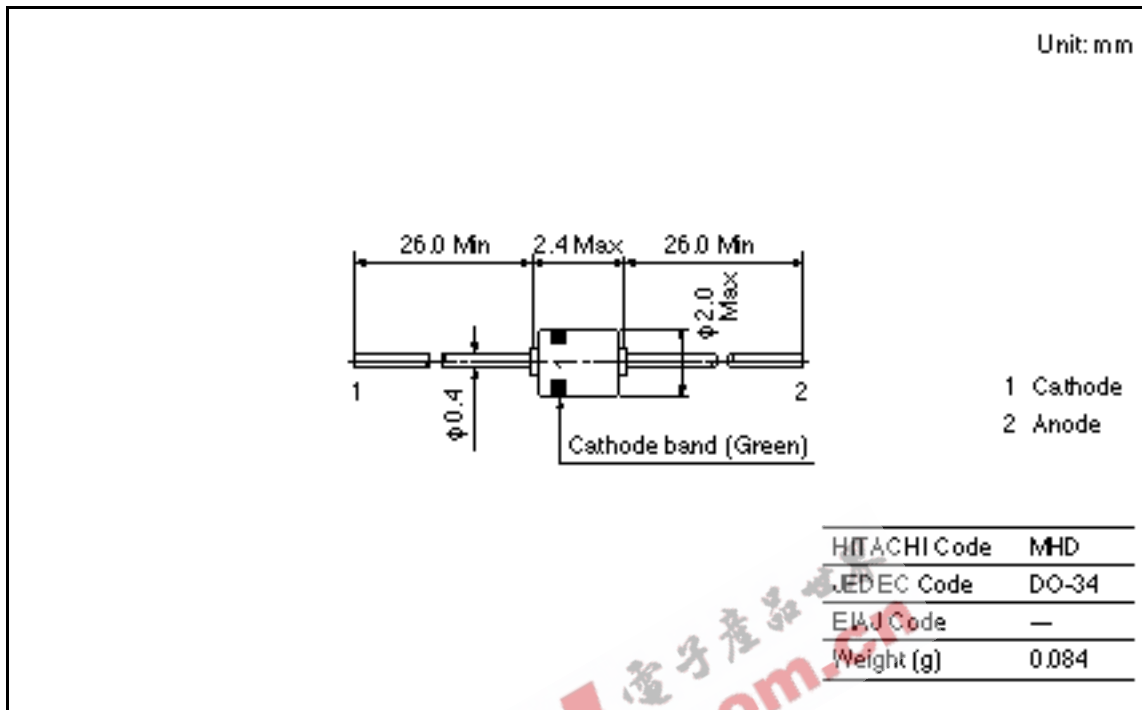


Fig.3 Capacitance Vs. Reverse voltage

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Package Dimensions



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