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# 1SS174

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

# HITACHI

ADE-208-398 (Z)  
Rev. 0

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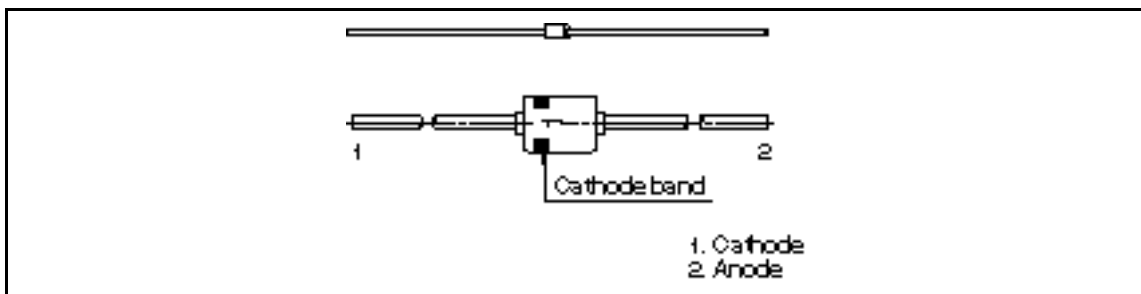
## Features

- 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	$\mu A$	$V_R = 0.5V$
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 $\mu A$

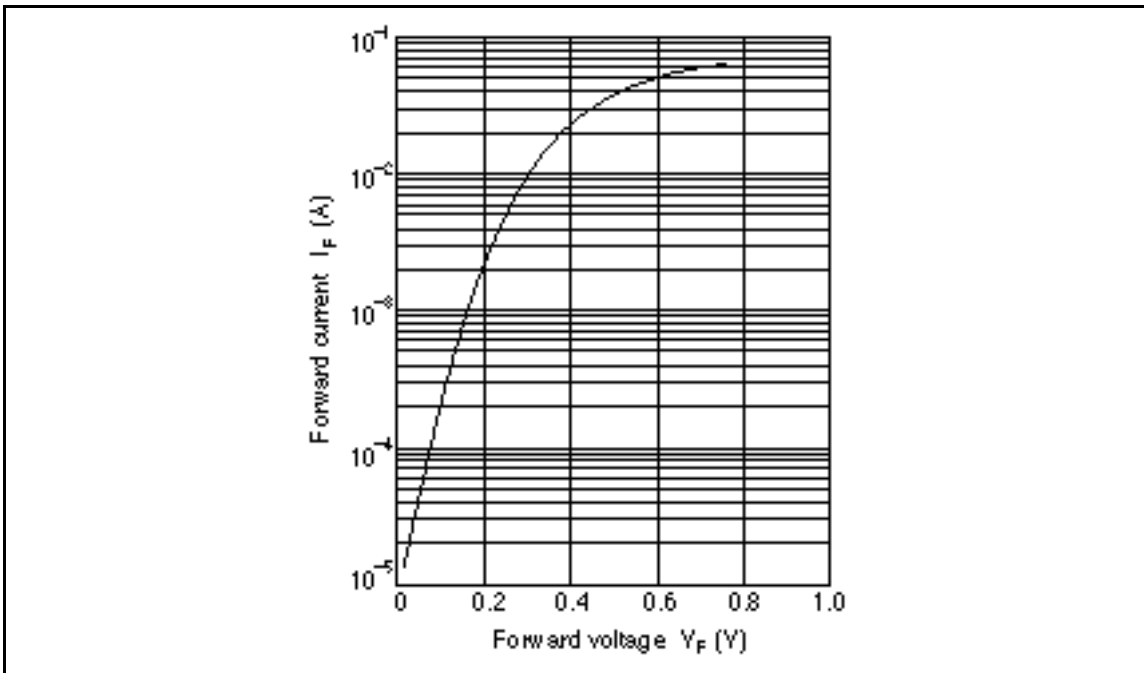


Fig.1 Forward current Vs. Forward voltage

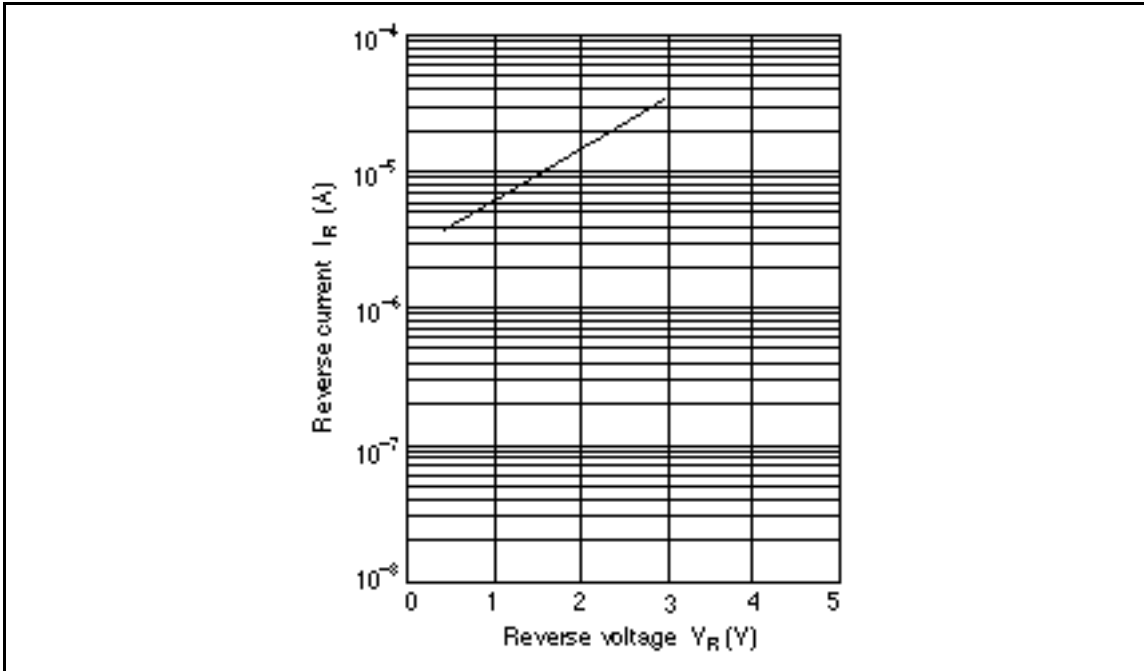


Fig.2 Reverse current Vs. Reverse voltage

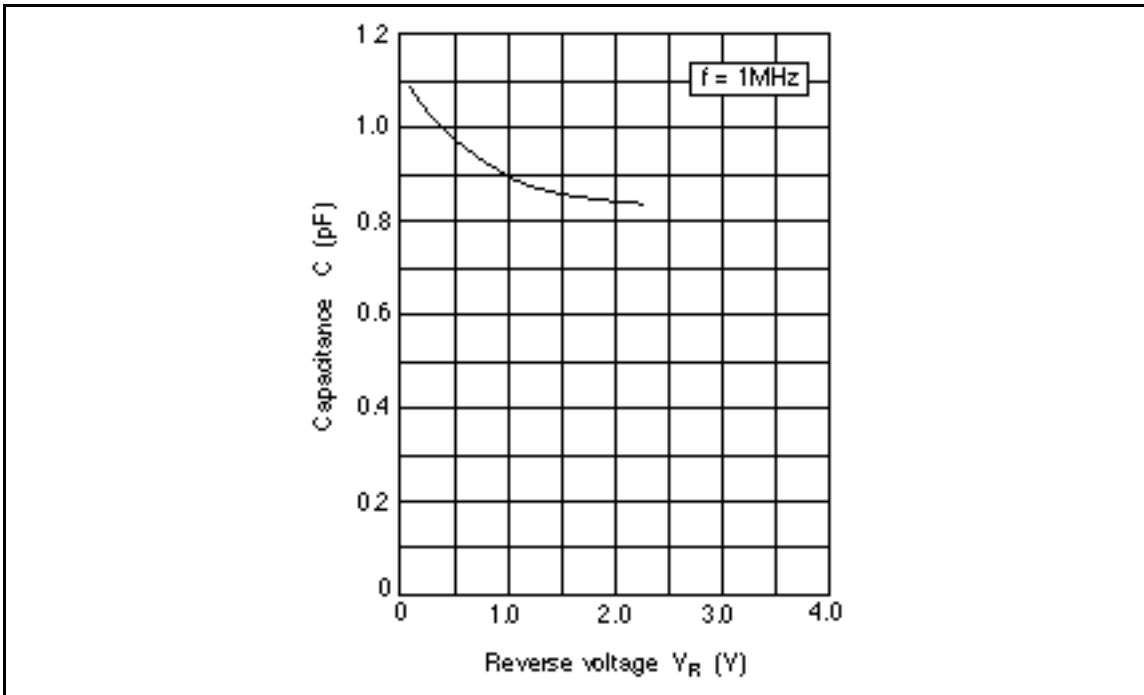
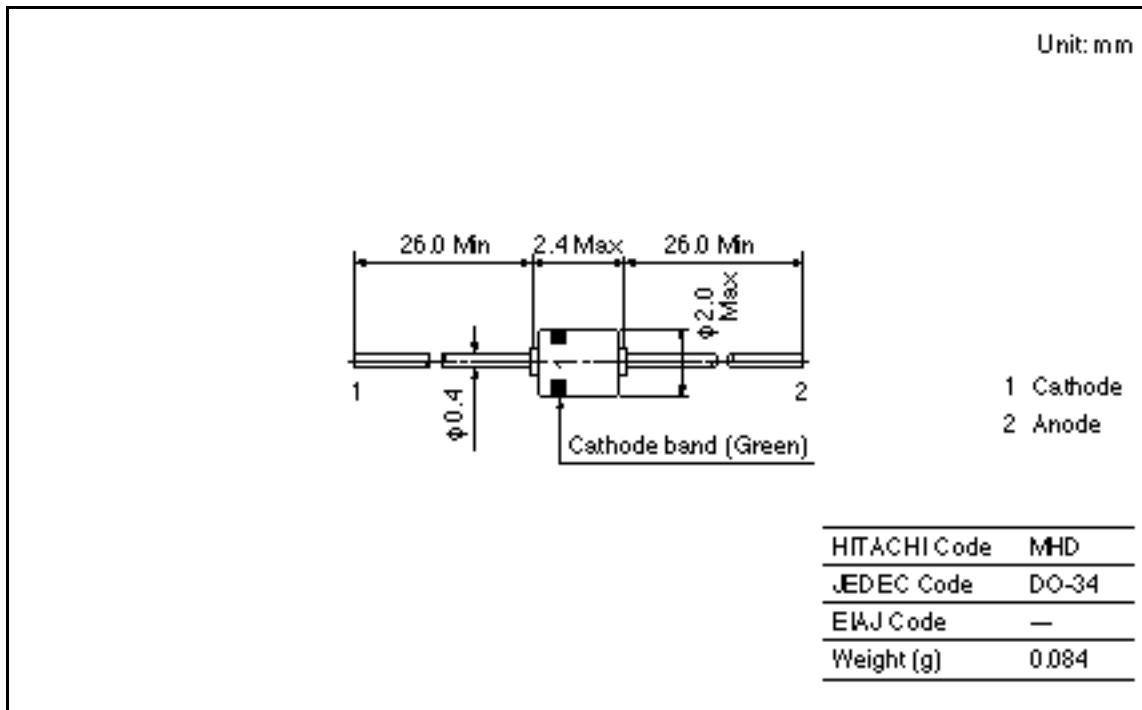


Fig.3 Capacitance Vs. Reverse voltage

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## Package Dimensions



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