

# 1SS174

Silicon Schottky Barrier Diode for UHF TV Tuner Mixer, Various Detector,  
High Speed Switching

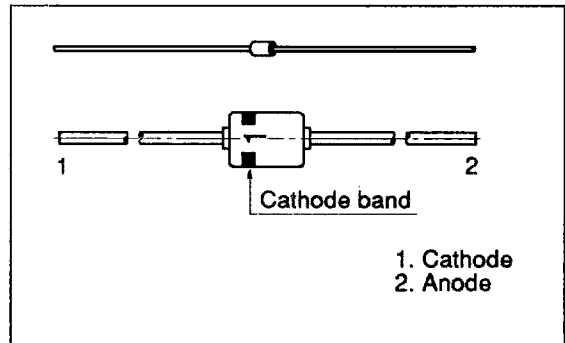
## Features

- Low capacitance.(C=1.2pF 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



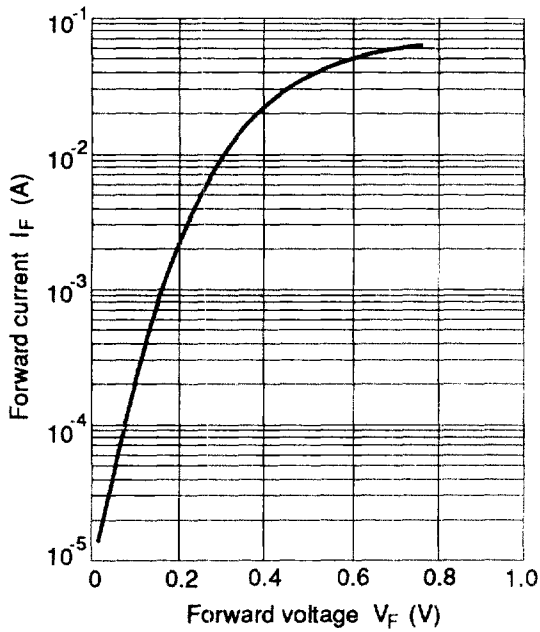
## Absolute Maximum Ratings (Ta = 25°C)

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	°C
Storage temperature	$T_{stg}$	-55 to +100	°C

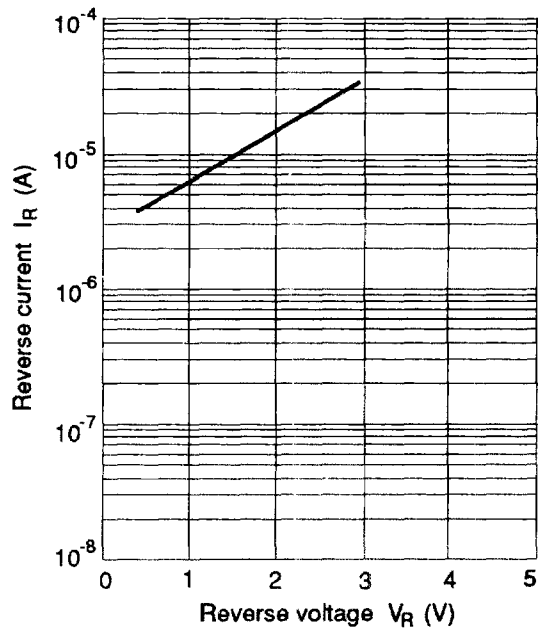
## Electrical Characteristics (Ta = 25°C)

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

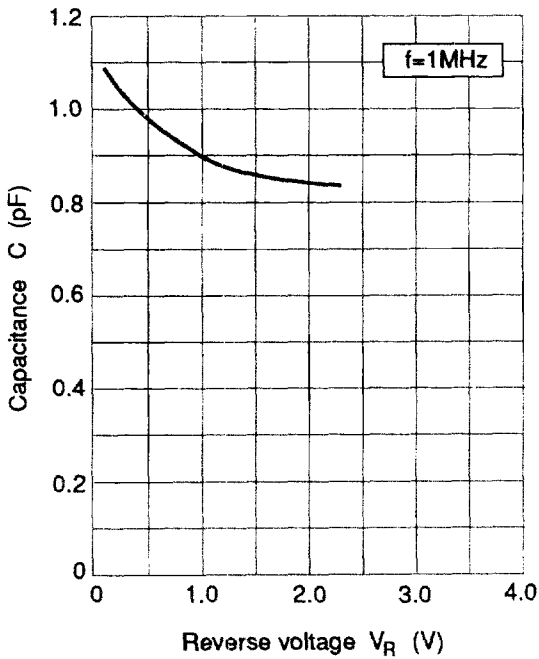
\* Failure criterion ;  $I_R \geq 50\mu$ A



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



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



**Fig.3 Capacitance Vs. Reverse voltage**