
1SS198

Silicon Schottky Barrier Diode for Various Detector,
High speed Switching

HITACHI

ADE-208-298A (Z)
Rev. 1

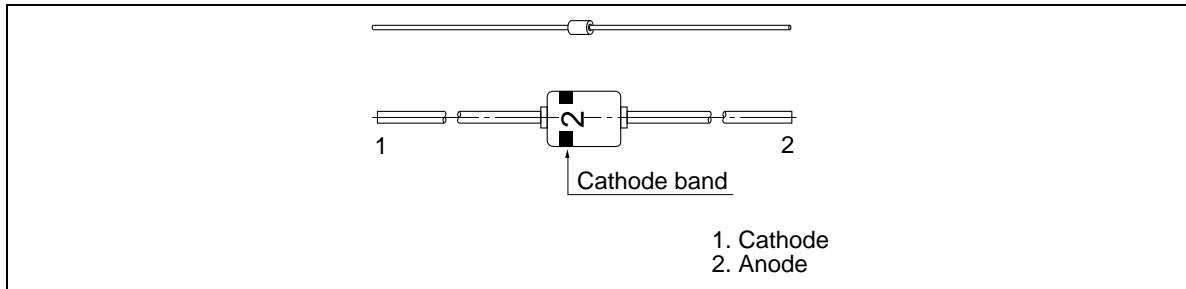
Features

- Detection efficiency is very good.
- Small temperature coefficient.
- Small glass package (MHD) enables easy mounting and high reliability.

Ordering Information

Type No.	Cathode band	Mark	Package Code
1SS198	Green	2	MHD

Outline



1SS198

Absolute Maximum Ratings (Ta = 25°C)

Item	Symbol	Value	Unit
Reverse voltage	V _R	10	V
Average rectified current	I _o	30	mA
Junction temperature	T _j	125	°C
Storage temperature	T _{stg}	-55 to +125	°C

Electrical Characteristics (Ta = 25°C)

Item	Symbol	Min	Typ	Max	Unit	Test Condition
Forward current	I _F	4.5	—	—	mA	V _F = 1V
Reverse current	I _R	—	—	70	μA	V _R = 6V
Capacitance	C	—	—	1.5	pF	V _R = 1V, f = 1MHz
Rectifier efficiency	η	70	—	—	%	V _{in} = 2Vrms, f = 40MHz, R _L = 5kΩ, C _L = 20pF
ESD-Capability	—	100	—	—	V	*C = 200pF, Both forward and reverse direction 1 pulse.

Note: Failure criterion; I_R ≥ 140μA at V_R = 6V

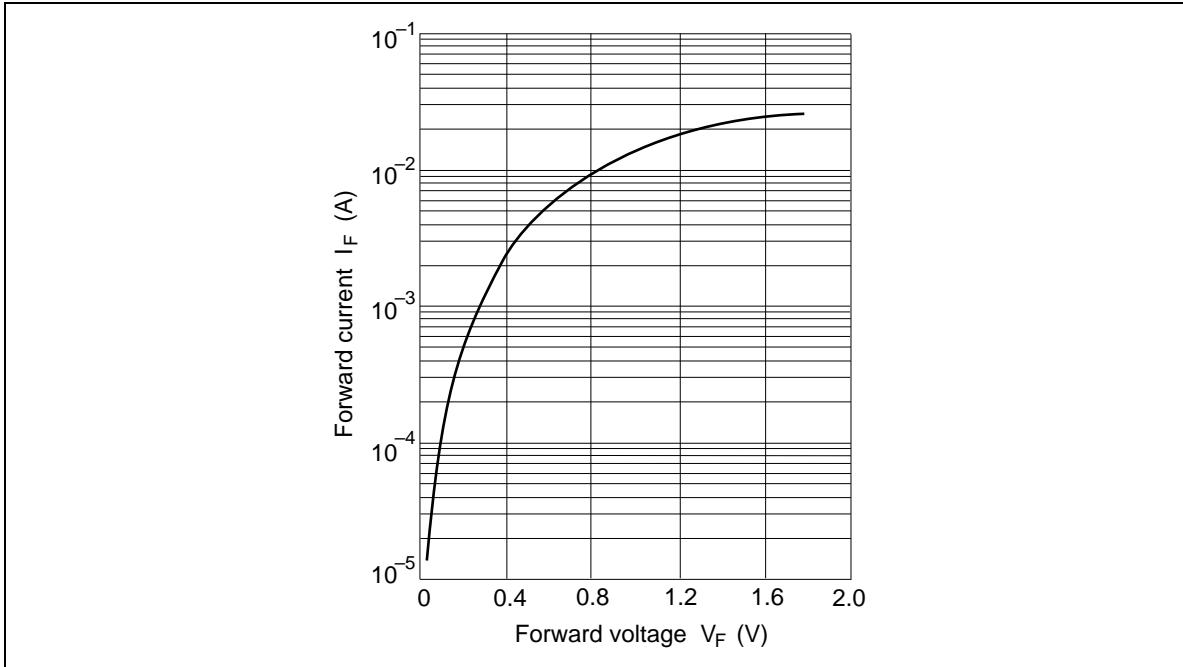


Fig.1 Forward current Vs. Forward voltage

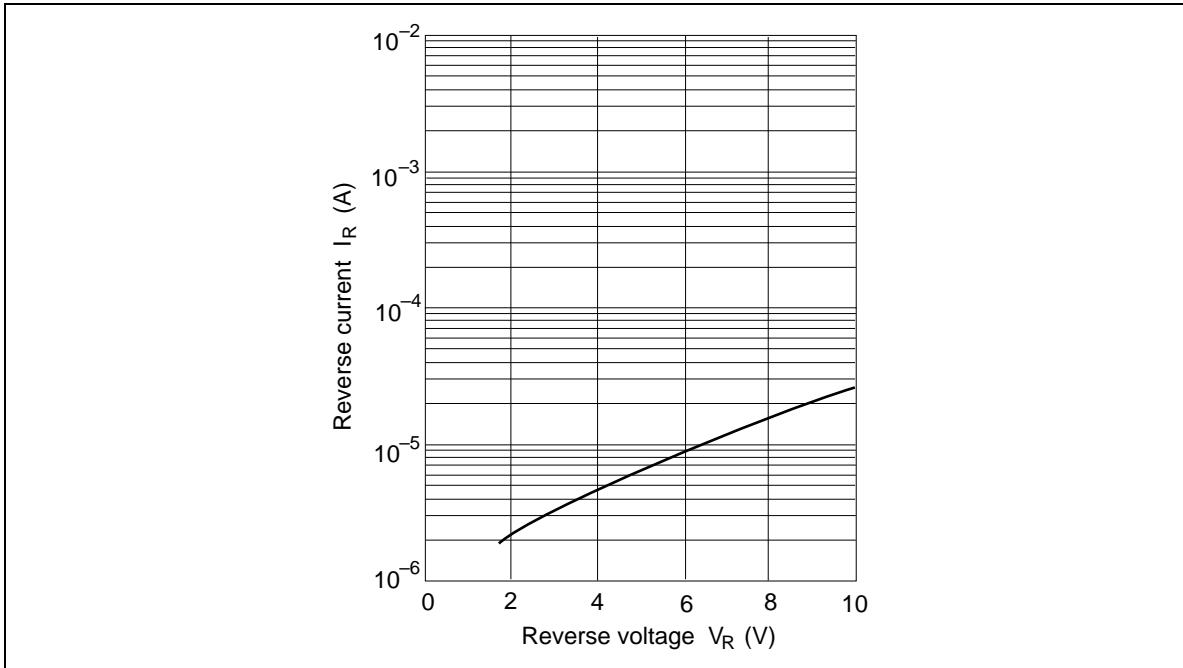


Fig.2 Reverse current Vs. Reverse voltage

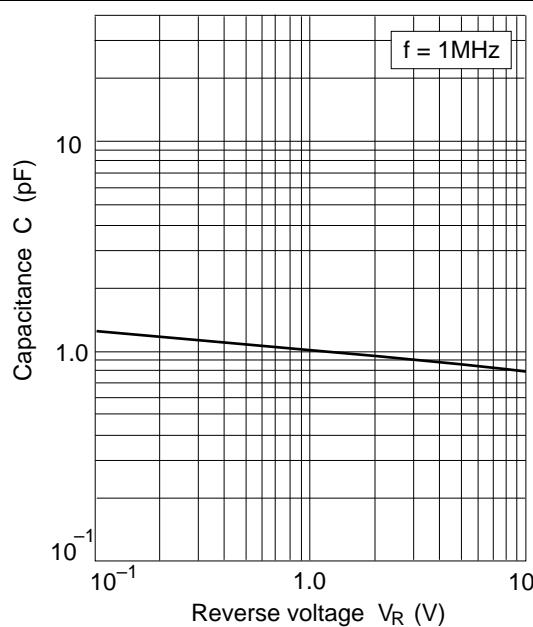


Fig.3 Capacitance Vs. Reverse voltage

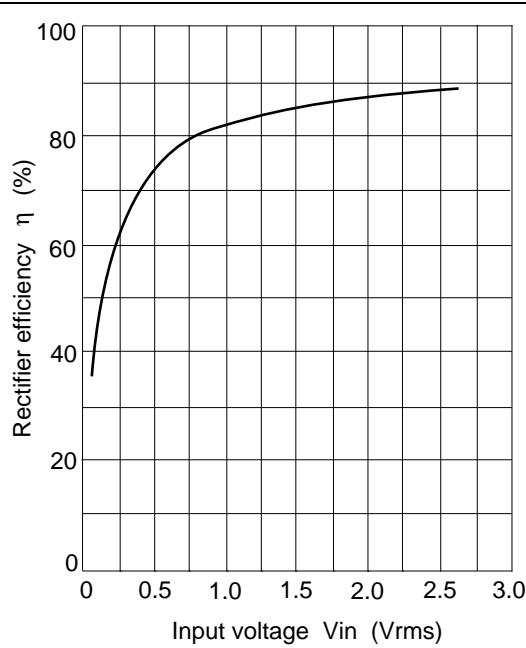


Fig.4 Rectifier efficiency Vs. Input voltage

Package Dimensions