1SS198

Silicon Schottky Barrier Diode for Various Detector, High Speed Switching

HITACHI

ADE-208-298A (Z) Rev. 1 Oct. 1998

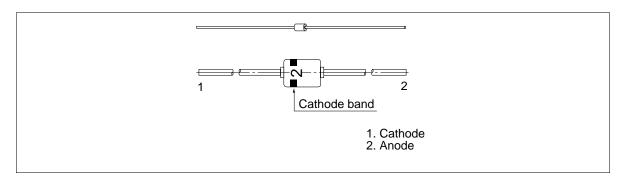
Features

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

Ordering Information

Type No.	Cathode	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	Io	30	mA
Junction temperature	Tj	125	°C
Storage temperature	Tstg	-55 to +125	°C

Electrical Characteristics (Ta = 25°C)

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Forward current	I _F	4.5	_	_	mA	$V_F = 1V$
Reverse current	I _R	_	_	70	μΑ	V _R = 6V
Capacitance	С	_	_	1.5	pF	V _R = 1V, f = 1MHz
Rectifier efficiency	η	70	_	_	%	Vin = 2Vrms, f = 40MHz, $R_L = 5k\Omega$, $C_L = 20pF$
ESD-Capability *1	_	100	_	_	V	C = 200pF, Both forward and reverse direction 1 pulse.

Notes: 1. Failure Criterion ; $I_R \ge 140\mu A$ at $V_R = 6V$

Main Characteristic

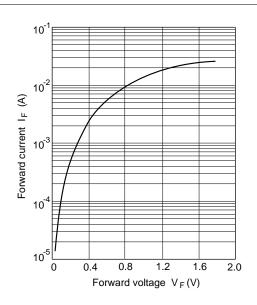


Fig.1 Forward current Vs. Forward voltage

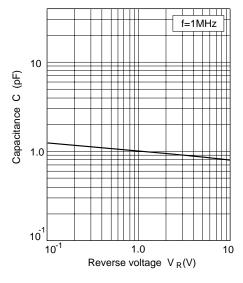


Fig.3 Capacitance Vs. Reverse voltage

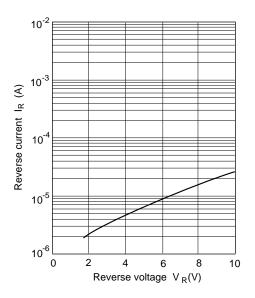


Fig.2 Reverse current Vs. Reverse voltage

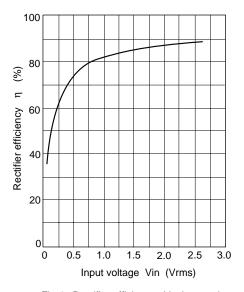
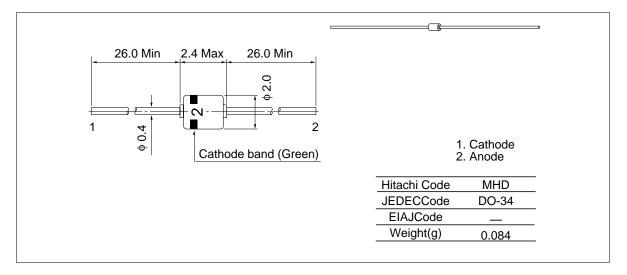


Fig.4 Rectifier efficiency Vs. Input voltage

1SS198

Package Dimensions



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