Silicon Schottky Barrier Diode for Various Detector, High Speed Switching

HITACHI

ADE-208-298A (Z)

Rev. 1 Oct. 1998

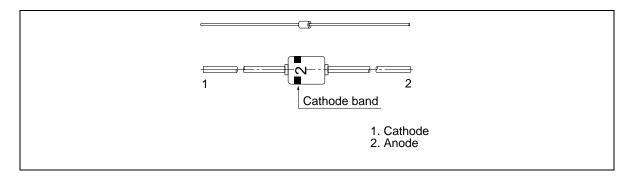
Features

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

Ordering Information

Туре No.	Cathode	Mark	Package Code
1SS198	Green	2	MHD

Outline





Absolute Maximum Ratings

 $(Ta = 25^{\circ}C)$

Item	Symbol	Value	Unit
Reverse voltage	V _R	10	V
Average rectified current	I _o	30	mA
Junction temperature	Tj	125	°C
Storage temperature	Tstg	–55 to +125	°C

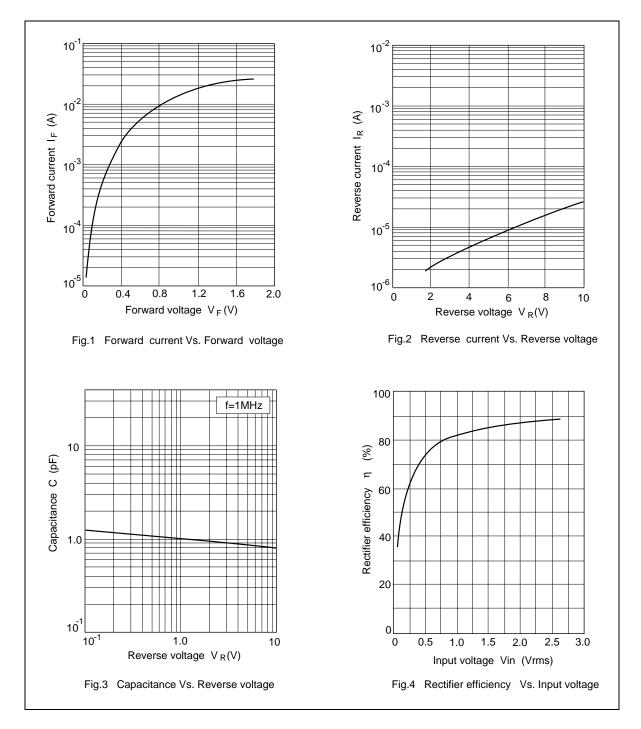
Electrical Characteristics

 $(Ta = 25^{\circ}C)$

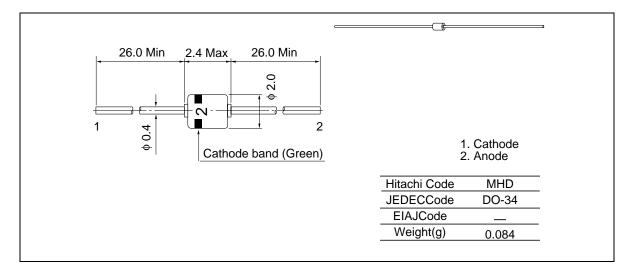
Item	Symbol	Min	Тур	Max	Unit	Test Condition
Forward current	I _F	4.5	_	_	mA	$V_{F} = 1V$
Reverse current	I _R	_	_	70	μA	V _R = 6V
Capacitance	С	_	_	1.5	pF	$V_{R} = 1V, f = 1MHz$
Rectifier efficiency	η	70	_	_	%	Vin = 2Vrms, f = 40MHz, $R_{L} = 5k\Omega$, $C_{L} = 20pF$
ESD-Capability ^{*1}	—	100	—	—	V	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



Package Dimensions



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