

1SS286

Silicon Schottky Barrier Diode for Various Detector,
High Speed Switching

REJ03G0142-0200Z
(Previous: ADE-208-302A)
Rev.2.00
Nov.10.2003

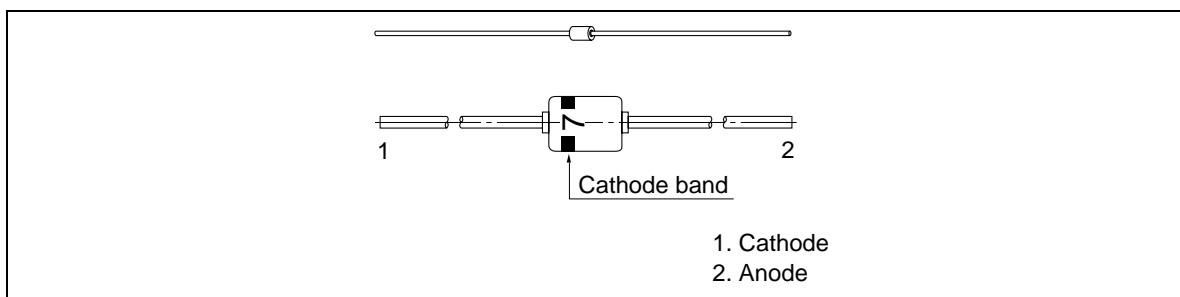
Features

- Very low reverse current.
- Detection efficiency is very good.
- Small glass package (MHD) enables easy mounting and high reliability.

Ordering Information

Type No.	Cathode	Mark	Package Code
1SS286	Green	7	MHD

Pin Arrangement



Absolute Maximum Ratings

(Ta = 25°C)

Item	Symbol	Value	Unit
Reverse voltage	V _R	25	V
Forward current	I _F	35	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 voltage	V _F	—	—	0.6	V	I _F = 10 mA
Reverse voltage	V _R	25	—	—	V	I _R = 10 µA
Reverse current	I _R	—	—	10	nA	V _R = 10 V
Capacitance	C	—	—	1.2	pF	V _R = 0 V, f = 1 MHz
Capacitance deviation	ΔC	—	—	0.1	pF	V _R = 0 V, f = 1 MHz
Forward voltage deviation	ΔV _F	—	—	10	mV	I _F = 10mA
ESD-Capability ^{*1}	—	10	—	—	V	C = 200 pF, R = 0 Ω , Both forward and reverse direction 1 pulse.

Notes: 1. Failure criterion ; I_R ≥ 20 nA at V_R = 10 V
2. Each group shall unify a multiple of 4 diodes

Main Characteristics

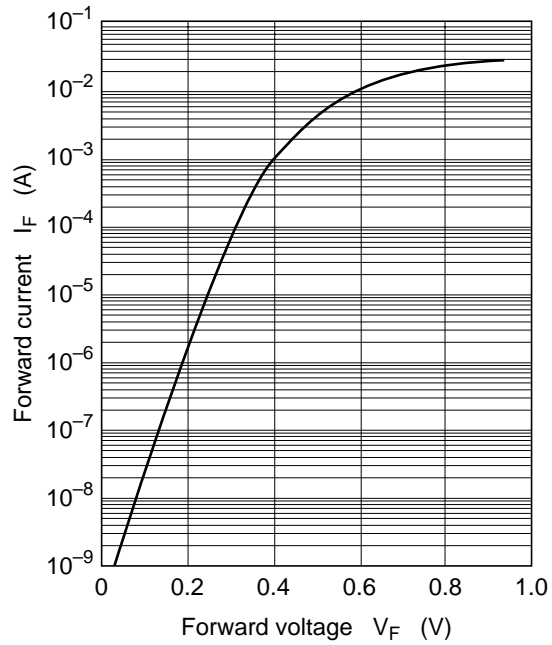


Fig.1 Forward current vs. Forward voltage

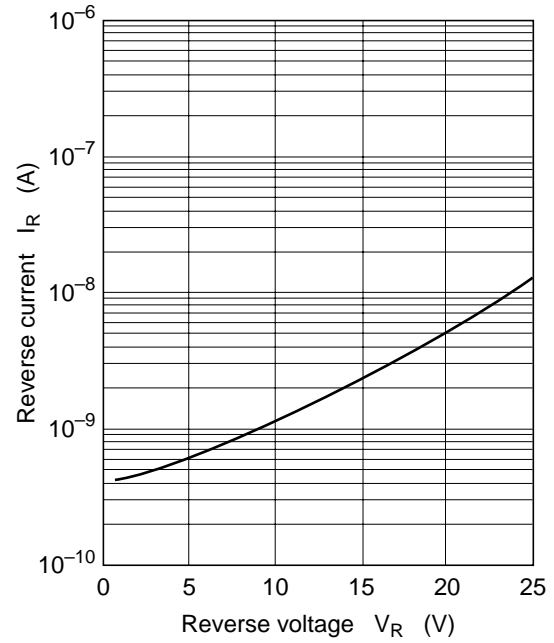


Fig.2 Reverse current vs. Reverse voltage

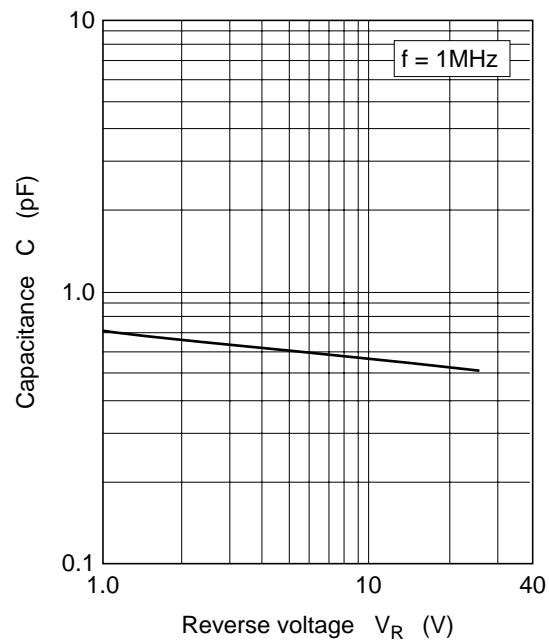
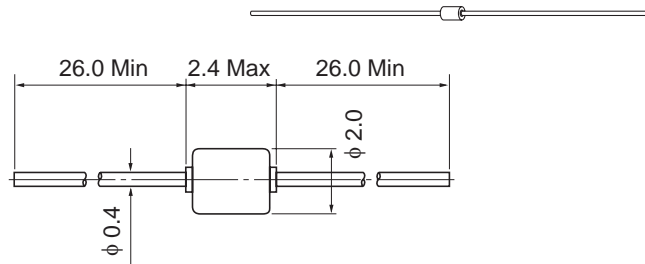


Fig.2 Capacitance vs. Reverse voltage

Package Dimensions

As of January, 2003

Unit: mm



Package Code	MHD
JEDEC	Conforms
JEITA	—
Mass (reference value)	0.084 g

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