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April 1st, 2010
Renesas Electronics Corporation

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1SS286

Silicon Schottky Barrier Diode for Various Detector, High Speed Switching

REJ03G0142-0300
Rev.3.00
May 24, 2007

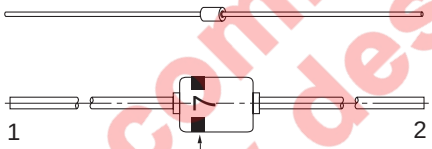
Features

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

Ordering Information

Part No.	Cathode	Mark	Package Name	Package Code
1SS286	GREEN	7	MHD	GRZZ0002ZC-A

Pin Arrangement



1. Cathode
2. Anode

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Absolute Maximum Ratings

(Ta = 25°C)

Item	Symbol	Value	Unit
Reverse voltage	V_R	25	V
Forward current	I_F	35	mA
Power dissipation	Pd	150	mW
Junction temperature	Tj	100	°C
Storage temperature	Tstg	–55 to +100	°C

Electrical Characteristics

(Ta = 25°C)

Item	Symbol	Min	Typ	Max	Unit	Test Condition
Forward voltage	V_F	—	—	0.60	V	I_F = 10 mA
Reverse voltage	V_R	25	—	—	V	I_F = 10 μA
Reverse current	I_R	—	—	10	nA	V_R = 10 V
Capacitance	C	—	—	1.20	pF	V_R = 0 V, f = 1 MHz
Capacitance deviation *3	ΔC	—	—	0.10	pF	V_R = 0 V, f = 1 MHz
Forward voltage deviation *3	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 ; $I_R \geq 20$ nA at V_R = 10 V
2. Each group shall unify a multiple of 4 diodes
3. Not applied to taping-type products.

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Main Characteristic

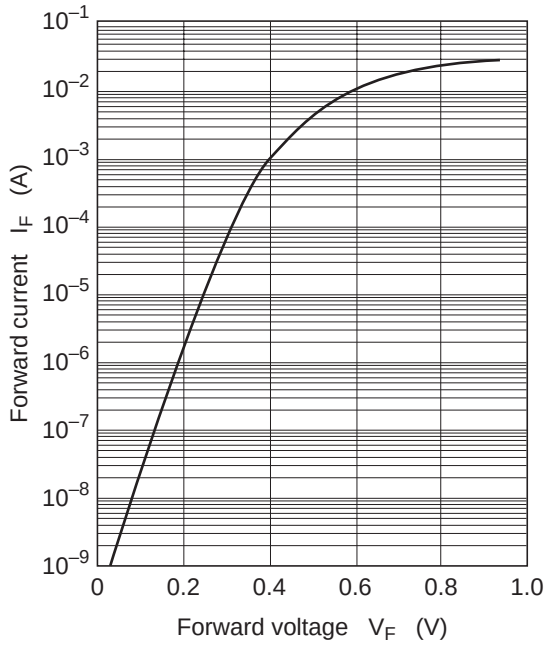


Fig.1 Forward current vs. Forward voltage

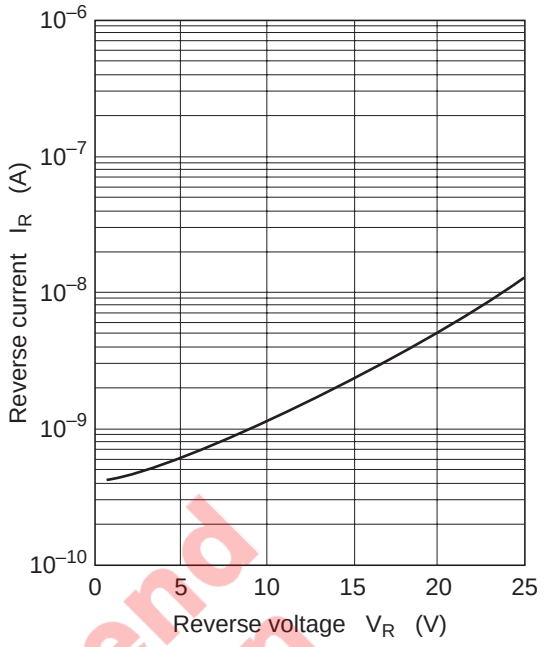


Fig.2 Reverse current vs. Reverse voltage

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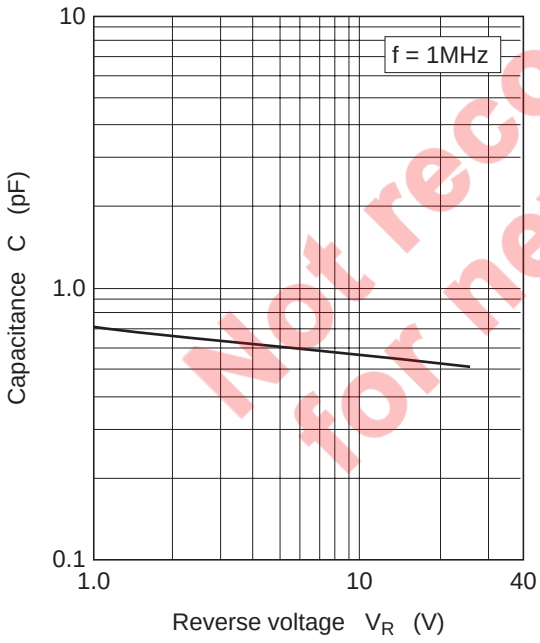
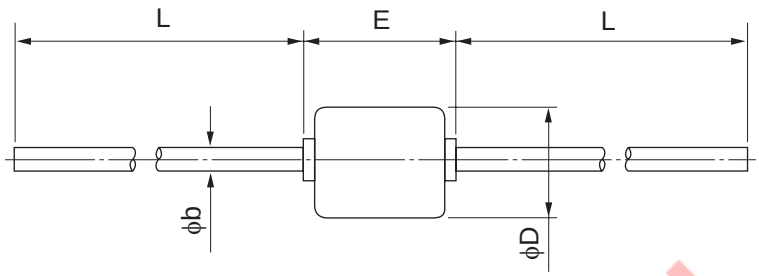


Fig.2 Capacitance vs. Reverse voltage

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Package Dimensions

Package Name	JEITA Package Code	RENESAS Code	Previous Code	MASS[Typ.]
MHD	—	GRZZ0002ZC-A	MHD / MHDV	0.084g



Reference Symbol	Dimension in Millimeters		
	Min	Nom	Max
ϕb	-	0.4	-
ϕD	-	2.0	-
E	-	-	2.4
L	26.0	-	-

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