

1SS86

Silicon Schottky Barrier Diode for UHF TV Tuner Mixer

REJ03G0614-0300
 (Previous: ADE-208-186B)
 Rev.3.00
 May 09, 2005

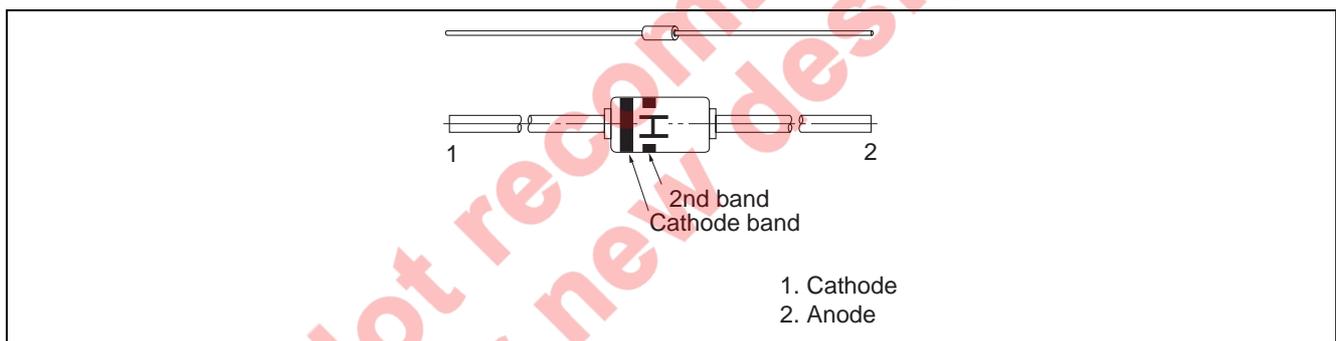
Features

- Low capacitance. (C = 0.85 pF max)
- High reliability with glass seal.

Ordering Information

Type No.	Cathode band	2nd band	Mark	Package Name	Package Code (Previous Code)
1SS86	White	White	H	DO-35	GRZZ0002ZB-A (DO-35)

Pin Arrangement



Absolute Maximum Ratings

(Ta = 25°C)

Item	Symbol	Value	Unit
Reverse voltage	V_R	3	V
Average rectified current	I_O	30	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 current	I_F	8	—	—	mA	$V_F = 0.5$ V
Reverse current	I_R	—	—	50	μ A	$V_R = 0.5$ V
Reverse voltage	V_R	3.0	—	—	V	$I_R = 1$ mA
Capacitance	C	—	—	0.85	pF	$V_R = 0.5$ V, $f = 1$ MHz
ESD-Capability *	—	30	—	—	V	C = 200 pF, R = 0 Ω , Both forward and reverse direction 1 pulse.

Note: Failure criterion ; $I_R > 50$ μ A at $V_R = 0.5$ V

Not recommended for new design

Main Characteristic

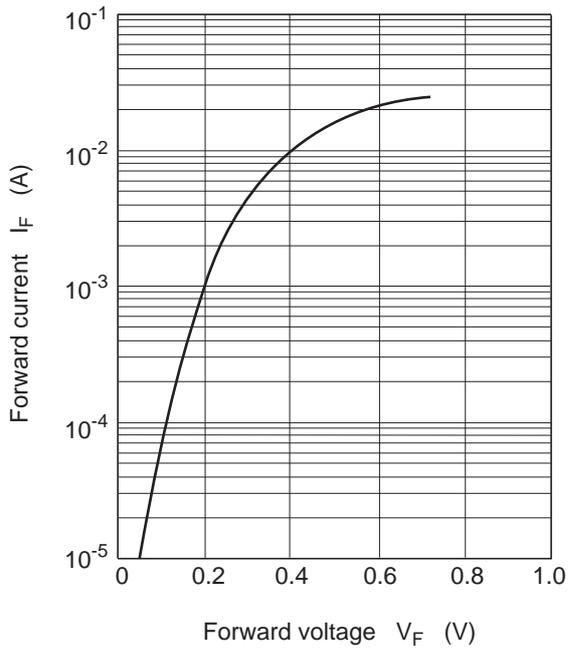


Fig.1 Forward current vs. Forward voltage

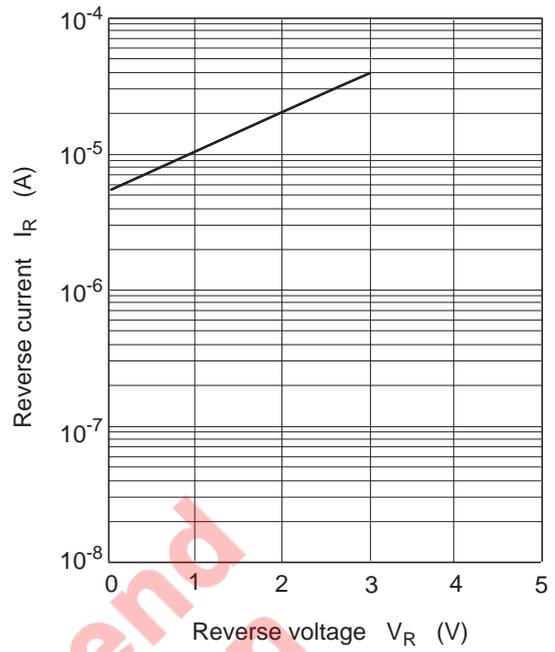


Fig.2 Reverse current vs. Reverse voltage

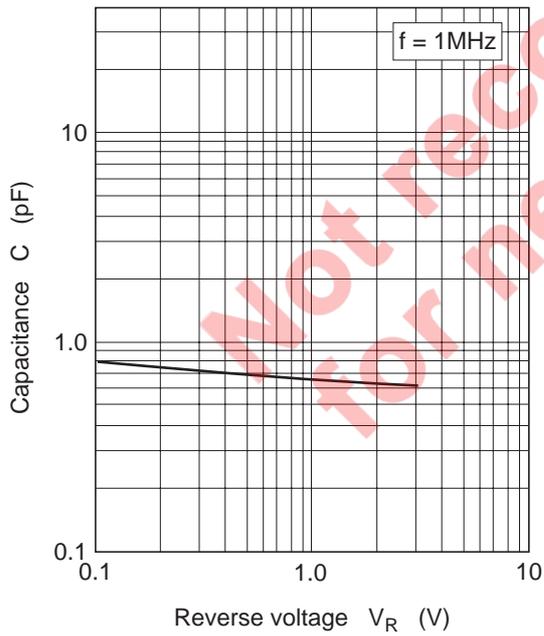


Fig.3 Capacitance vs. Reverse voltage

Package Dimensions

JEITA Package Code	RENESAS Code	Previous Code	MASS[Typ.]
SC-40	GRZZ0002ZB-A	DO-35 / DO-35V	0.13g

The diagram shows a side view of the SC-40 package. It features a central cylindrical body with a diameter of ϕD and a length of E . This central body is flanked by two leads, each with a length of L and a diameter of ϕb . The leads are shown with break lines to indicate they are longer than depicted.

Reference Symbol	Dimension in Millimeters		
	Min	Nom	Max
ϕb	-	0.5	-
ϕD	-	2.0	-
E	-	-	4.2
L	26.0	-	-

Not recommend
for new design

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