

To our customers,

Old Company Name in Catalogs and Other Documents

On April 1st, 2010, NEC Electronics Corporation merged with Renesas Technology Corporation, and Renesas Electronics Corporation took over all the business of both companies. Therefore, although the old company name remains in this document, it is a valid Renesas Electronics document. We appreciate your understanding.

Renesas Electronics website: <http://www.renesas.com>

April 1st, 2010
Renesas Electronics Corporation

Issued by: Renesas Electronics Corporation (<http://www.renesas.com>)

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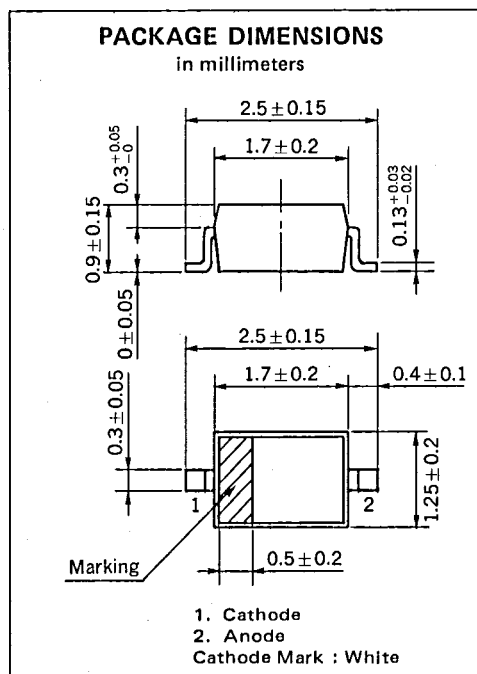
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SILICON SWITCHING DIODE

1SS317

UHF/VHF ELECTRONIC TUNER & VHF LOW,HIGH CH.SWITCH SILICON EPITAXIAL PLANAR DIODE



FEATURES

- Low series resistance r_s .
- Low leakage current.

$$I_R \leq 50 \text{ nA at } V_R = 30 \text{ V}$$
- High reliability.
- Very small size to assure good space factor in Hybrid IC application.

ABSOLUTE MAXIMUM RATINGS ($T_a = 25^\circ\text{C}$)

Reverse Voltage	V_R	35	V
Average Rectified Current	I_O	100	mA
Power Dissipation	P_D	150	mW
Storage Temperature	T_{stg}	-55 to +125	°C

ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ\text{C}$)

CHARACTERISTIC	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITIONS
Forward Voltage	V_F			1.1	V	$I_F = 100 \text{ mA}$
Reverse Voltage	V_R	35			V	$I_R = 1.0 \mu\text{A}$
Reverse Current	I_R		0.5	50	nA	$V_R = 30 \text{ V}$
Series Resistance	r_s		0.5	0.6	Ω	$I_F = 2.0 \text{ mA}, f = 100 \text{ MHz}$
Terminal Capacitance	C_t		1.1	1.5	pF	$V_R = 15 \text{ V}, f = 1.0 \text{ MHz}$

The descriptions are therefore subject to change without notice in advance.

TYPICAL CHARACTERISTICS ($T_a = 25^\circ\text{C}$)