

TOSHIBA DIODE SILICON EPITAXIAL SCHOTTKY BARRIER TYPE

# 1SS271

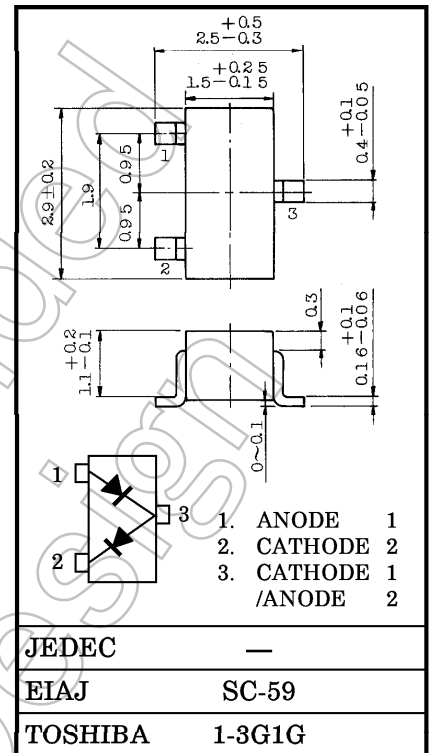
VHF~UHF MIXER APPLICATION

Unit in mm

- Small Package
- Small Delta Forward Voltage :  $\Delta V_F = 10\text{mV (Max.)}$
- Small Delta Total Capacitance :  $\Delta C_T = 0.1\text{pF (Max.)}$

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Reverse Voltage	$V_R$	6	V
Forward Current	$I_F$	30	mA
Junction Temperature	$T_j$	125	°C
Storage Temperature Range	$T_{stg}$	-55~125	°C



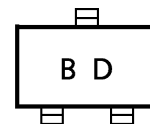
Weight : 0.013g

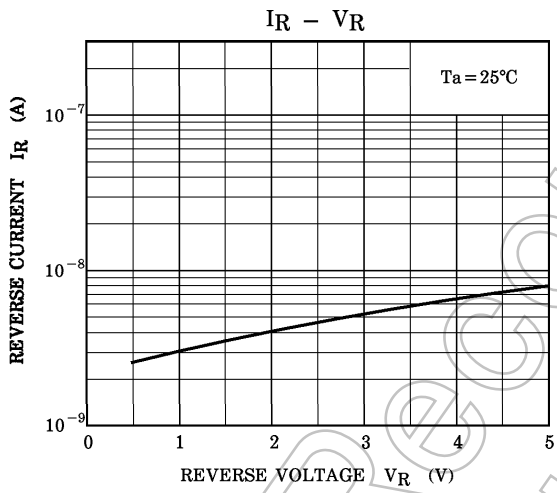
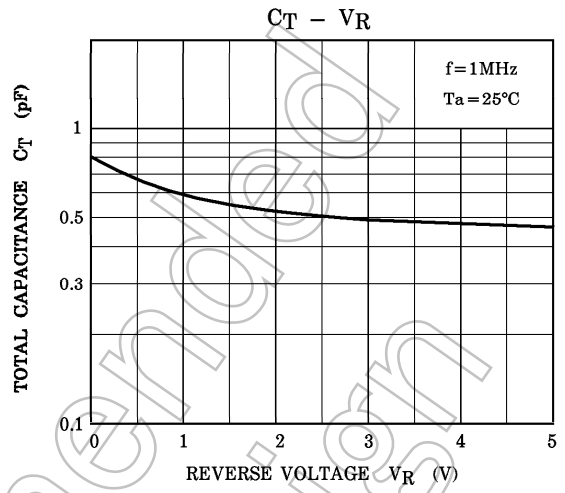
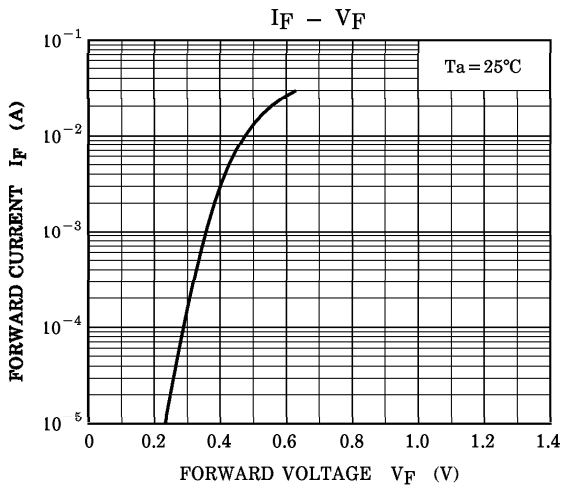
ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Reverse Voltage	$V_R$	$I_R = 10\mu\text{A}$	6	—	—	V
Reverse Current	$I_R$	$V_R = 5\text{V}$	—	—	0.5	$\mu\text{A}$
Forward Voltage	$V_F(1)$	$I_F = 0.1\text{mA}$	—	0.3	—	V
Forward Voltage	$V_F(2)$	$I_F = 10\text{mA}$	0.42	0.5	0.55	V
Total Capacitance	$C_T$	$V_R = 0\text{V}, f = 1\text{MHz}$	—	0.8	1.0	pF
Delta Forward Voltage	$\Delta V_F$	$I_F = 10\text{mA}$ (Note)	—	—	10	mV
Delta Total Capacitance	$\Delta C_T$	$V_R = 0\text{V}, f = 1\text{MHz}$ (Note)	—	—	0.1	pF

(Note): Difference between 2 Devices in 1 Package.

Marking





Not Recommended for New Designs

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