

TOSHIBA DIODE SILICON EPITAXIAL SCHOTTKY BARRIER TYPE

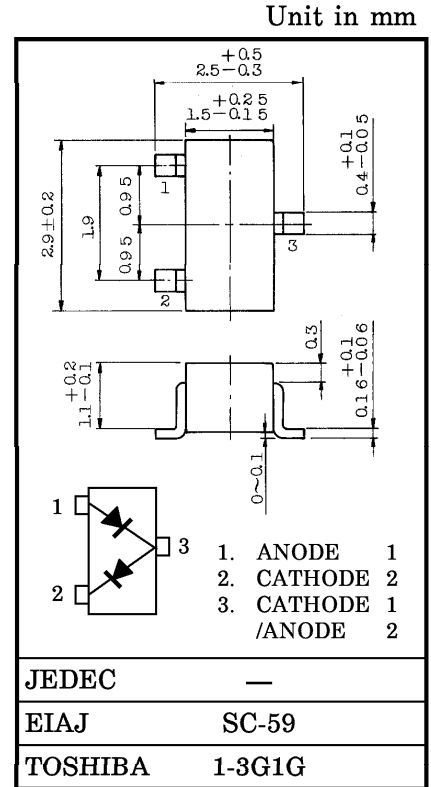
1SS271

VHF~UHF MIXER APPLICATION

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

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

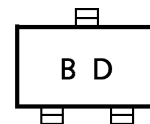


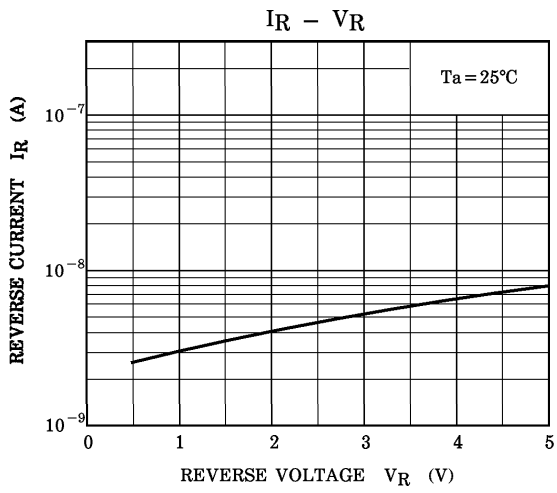
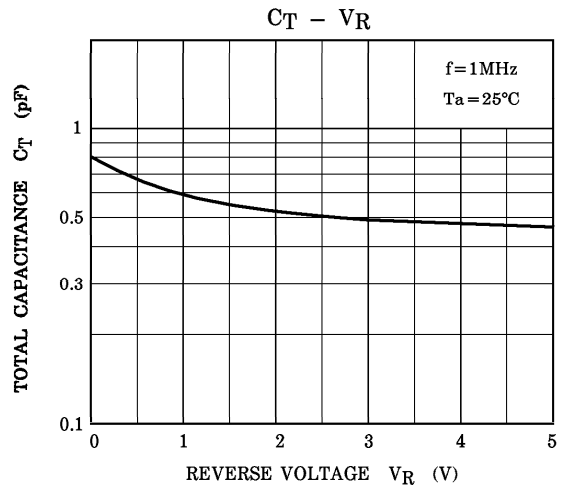
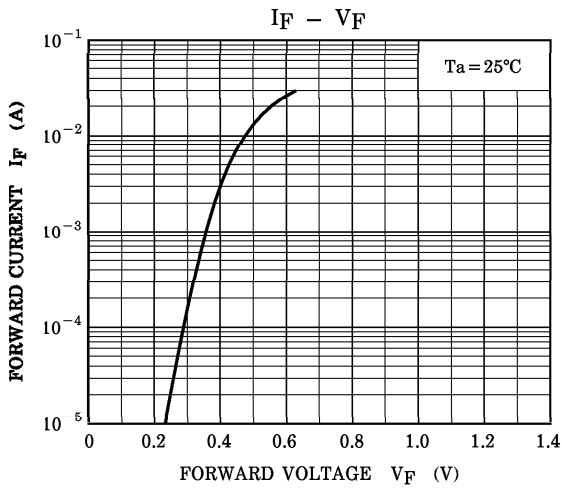
ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ\text{C}$)

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	μA
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	ΔV_F	$I_F = 10\text{mA}$ (Note)	—	—	10	mV
Delta Total Capacitance	ΔC_T	$V_R = 0\text{V}, f = 1\text{MHz}$ (Note)	—	—	0.1	pF

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

Marking





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