

TOSHIBA DIODE SILICON EPITAXIAL SCHOTTKY BARRIER TYPE

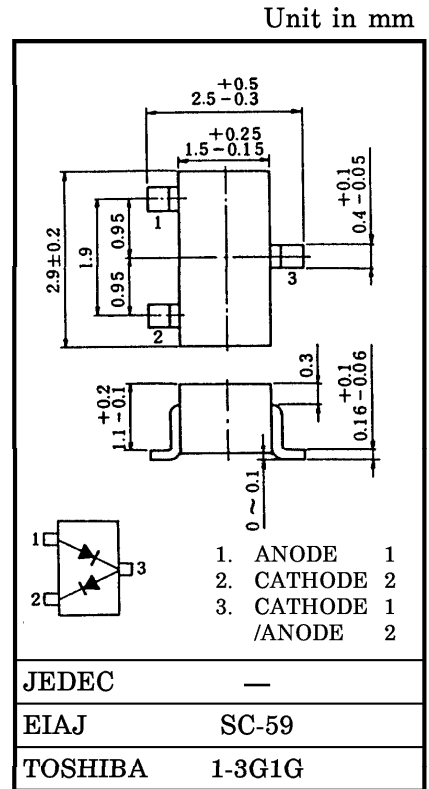
1SS295

UHF BAND MIXER APPLICATIONS.

- 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	4	V
Forward Current	I_F	30	mA
Junction Temperature	T_j	125	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-55~125	$^\circ\text{C}$



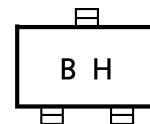
Weight : 0.013g

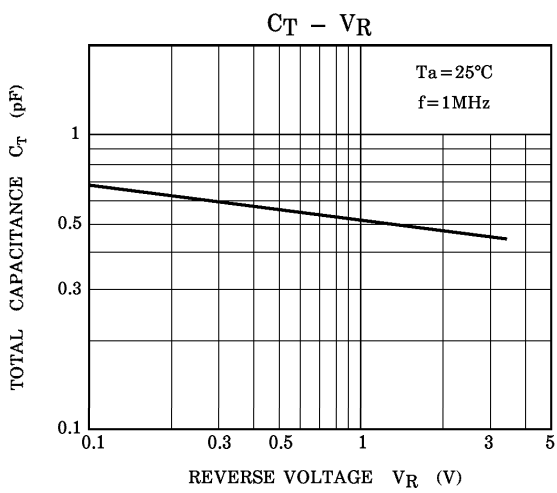
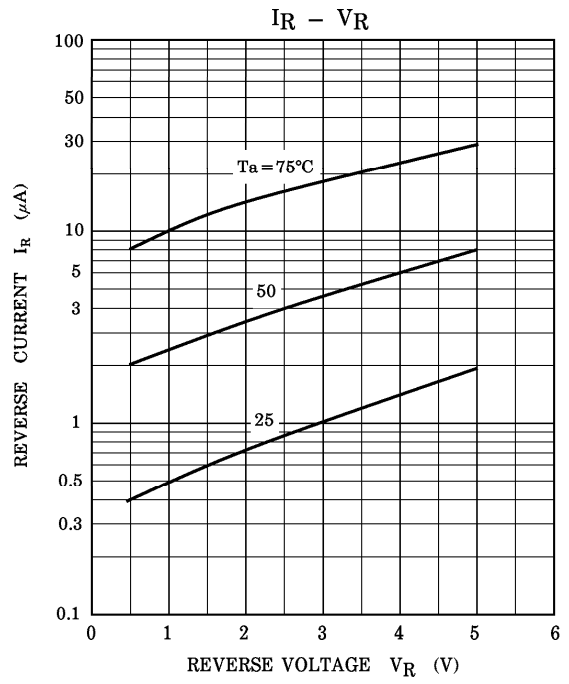
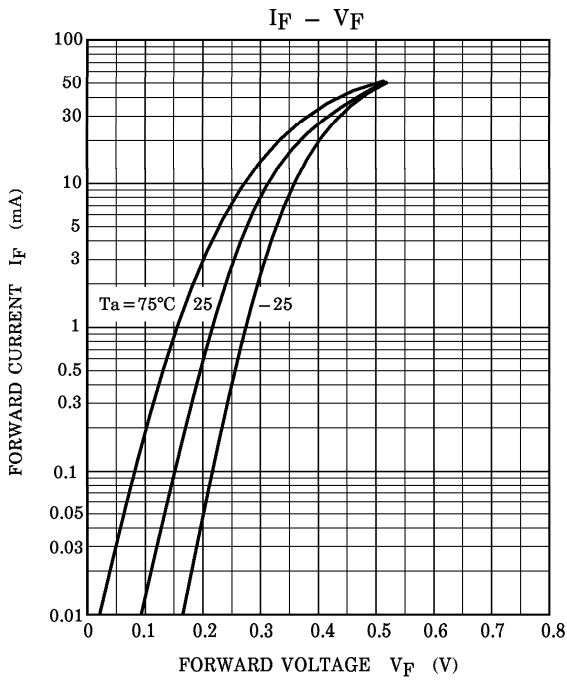
ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ\text{C}$)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Forward Voltage	V_F	$I_F = 2\text{mA}$	—	0.25	0.32	V
Forward Current	I_F	$V_F = 0.5\text{V}$	30	—	—	mA
Reverse Current	I_R	$V_R = 0.5\text{V}$	—	—	25	μA
Total Capacitance	C_T	$V_R = 0.2\text{V}, f = 1\text{MHz}$	—	0.6	0.9	pF
Delta Forward Voltage	ΔV_F	$I_F = 2\text{mA}$ (Note)	—	—	10	mV
Delta Total Capacitance	ΔC_T	$V_R = 0.2\text{V}, f = 100\text{MHz}$ (Note)	—	—	0.1	pF

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

Marking





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