

TOSHIBA DIODE SILICON EPITAXIAL SCHOTTKY BARRIER TYPE

# 1SS295

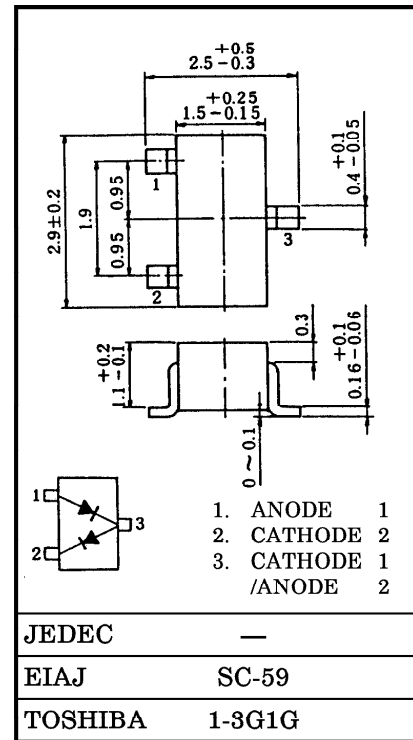
UHF BAND MIXER APPLICATIONS.

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

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	$^\circ\text{C}$



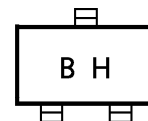
Weight : 0.013g

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	$\mu\text{A}$
Total Capacitance	$C_T$	$V_R = 0.2\text{V}, f = 1\text{MHz}$	—	0.6	0.9	pF
Delta Forward Voltage	$\Delta V_F$	$I_F = 2\text{mA}$ (Note)	—	—	10	mV
Delta Total Capacitance	$\Delta C_T$	$V_R = 0.2\text{V}, f = 100\text{MHz}$ (Note)	—	—	0.1	pF

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

Marking



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