#### TOSHIBA DIODE SILICON EPITAXIAL SCHOTTKY BARRIER TYPE

# 1 S S 2 7 1

#### VHF~UHF MIXER APPLICATION

Small Package

:  $\Delta V_F = 10 \text{mV (Max.)}$ Small Delta Forward Voltage

Small Delta Total Capacitance :  $\Delta C_T = 0.1 pF (Max.)$ 

### MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Reverse Voltage	$v_{\mathbf{R}}$	6	V
Forward Current	$I_{\mathbf{F}}$	30	mA
Junction Temperature	$T_{j}$	125	$^{\circ}\mathrm{C}$
Storage Temperature Range	$T_{ m stg}$	-55~125	$^{\circ}\mathrm{C}$

## Unit in mm $^{+0.25}_{1.5-0.15}$ 0.9 2.9±0.2 ANODE 1. CATHODE 2 CATHODE 1 /ANODE **JEDEC** EIAJ SC-59

1-3G1G

Weight: 0.013g

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#### ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Reverse Voltage	$v_{ m R}$	$I_R = 10 \mu A$	6	_		V
Reverse Current	${ m I_R}$	$V_R=5V$	_	_	0.5	$\mu$ <b>A</b>
Forward Voltage	V <sub>F</sub> (1)	$I_{\mathbf{F}} = 0.1 \text{mA}$		0.3		V
Forward Voltage	V <sub>F</sub> (2)	I <sub>F</sub> =10mA		0.5	0.55	V
Total Capacitance	$\mathrm{C}_{\mathbf{T}}$	$V_R = 0V$ , $f = 1MHz$		0.8	1.0	рF
Delta Forward Voltage	$\Delta \mathbf{V_F}$	I <sub>F</sub> =10mA (Note)	_	_	10	mV
Delta Total Capacitance	$\Delta \mathrm{C_T}$	$V_R=0V, f=1MHz$ (Note)		_	0.1	pF

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

Marking



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