## TOSHIBA DIODE SILICON EPITAXIAL SCHOTTKY BARRIER TYPE

# 1 S S 2 9 5

UHF BAND MIXER APPLICATIONS.

Small Package

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

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

## MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Reverse Voltage	$v_{ m R}$	4	V
Forward Current	$\mathbf{I_F}$	30	mA
Junction Temperature	$T_{j}$	125	$^{\circ}\mathrm{C}$
Storage Temperature Range	$T_{ m stg}$	-55~125	°C

Unit in mm 2.5 - 0.3 ANODE CATHODE 2 CATHODE 1 /ANODE **JEDEC** EIAJ SC-59 TOSHIBA 1-3G1G

Weight: 0.013g

# ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Forward Voltage	$ m V_{ m F}$	$I_{\mathbf{F}} = 2 \mathbf{m} \mathbf{A}$		0.25	0.32	V
Forward Current	$I_{\mathbf{F}}$	$V_{ m F}$ = 0.5 $V$	30	_	<b>—</b>	mA
Reverse Current	$I_{\mathbf{R}}$	$V_R = 0.5V$	_	_	25	$\mu$ <b>A</b>
Total Capacitance	$C_{\mathbf{T}}$	$V_R$ =0.2V, f=1MHz	_	0.6	0.9	pF
Delta Forward Voltage	$\Delta V_{\mathbf{F}}$	I <sub>F</sub> =2mA (Note)	_	_	10	mV
Delta Total Capacitance	$\Delta C_{\mathbf{T}}$	$V_R$ =0.2V, f=100MHz (Note)		_	0.1	pF

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

### Marking



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