Unit in mm

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.)

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

MAXIMUM RATINGS (Ta = 25°C)

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

2.5-0.3 1.5-0.15 2.5-0.3 1.5-0.15 2.60 2.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

1-3G1G

Weight: 0.013g

TOSHIBA

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

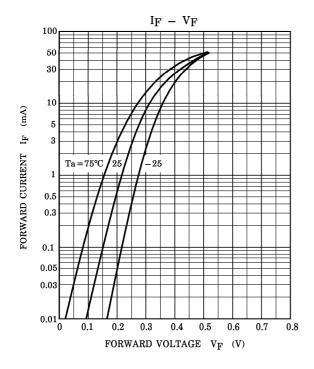
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Forward Voltage	$ m V_{f F}$	$I_{ m F}\!=\!2{ m mA}$	_	0.25	0.32	V
Forward Current	${ m I_F}$	$V_{\mathbf{F}} = 0.5V$	30	_	_	mA
Reverse Current	${ m I}_{ m R}$	$V_R = 0.5V$	_	_	25	μ A
Total Capacitance	C_{T}	V_R =0.2 V , f=1 M Hz	_	0.6	0.9	pF
Delta Forward Voltage	$\Delta \mathbf{V_F}$	I _F =2mA (Note)	_		10	mV
Delta Total Capacitance	ΔC_{T}	V_R =0.2V, f=100MHz (Note)	_	_	0.1	pF

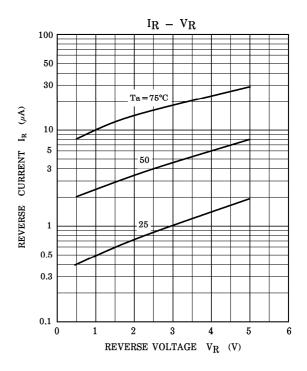
(Note): Difference between 2 Devices 2 Devices in 1 package.

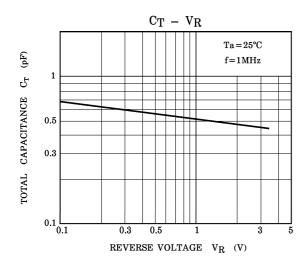
Marking



1 2001-05-31







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