TOSHIBA DIODE SILICON EPITAXIAL SCHOTTKY BARRIER TYPE

1 S S 2 7 1

VHF~UHF MIXER APPLICATION

• Small Package

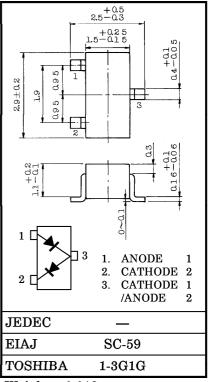
• Small Delta Forward Voltage : $\Delta V_F = 10 \text{mV}$ (Max.)

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

MAXIMUM RATINGS (Ta = 25°C)

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

Unit in mm



Weight: 0.013g

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

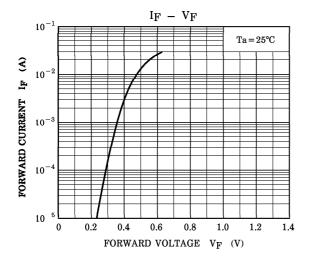
CHARACTERISTIC	SYMBOL	TEST CONDITION		MIN.	TYP.	MAX.	UNIT
Reverse Voltage	v_{R}	$I_R = 10 \mu A$		6	_	_	V
Reverse Current	$I_{\mathbf{R}}$	$V_R=5V$		_	_	0.5	μ A
Forward Voltage	$V_{\mathbf{F}}(1)$	$I_{ m F}\!=\!0.1{ m mA}$		_	0.3	_	V
Forward Voltage	$V_{\mathbf{F}}(2)$	$I_{\mathbf{F}} = 10 \text{mA}$		0.42	0.5	0.55	V
Total Capacitance	C_{T}	$V_R=0V, f=1MHz$		_	0.8	1.0	pF
Delta Forward Voltage	$\Delta \mathbf{V_F}$	$I_{\mathbf{F}} = 10 \text{mA}$	(Note)	_	_	10	mV
Delta Total Capacitance	ΔC_{T}	$V_R=0V, f=1MHz$	(Note)	_	_	0.1	pF

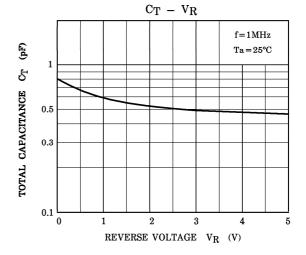
(Note): Difference between 2 Devices in 1 Package.

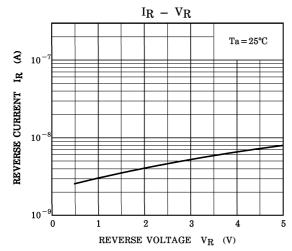
Marking



1 2001-05-31







2 2001-05-31

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