

## 1SS154

UHF~S Band Mixer/Detector Applications

Unit: mm

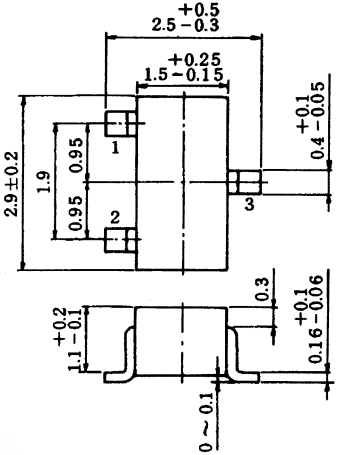
- Small package.

## Absolute Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit
Reverse voltage	$V_R$	6	V
Forward current	$I_F$	30	mA
Junction temperature	$T_j$	125	°C
Storage temperature range	$T_{stg}$	-30~125	°C

Note: Using continuously under heavy loads (e.g. the application of high temperature/current/voltage and the significant change in temperature, etc.) may cause this product to decrease in the reliability significantly even if the operating conditions (i.e. operating temperature/current/voltage, etc.) are within the absolute maximum ratings.

Please design the appropriate reliability upon reviewing the Toshiba Semiconductor Reliability Handbook ("Handling Precautions"/"Derating Concept and Methods") and individual reliability data (i.e. reliability test report and estimated failure rate, etc).

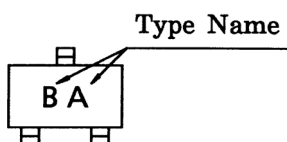
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JEDEC	—	
JEITA	SC-59	
TOSHIBA	1-3G1A	

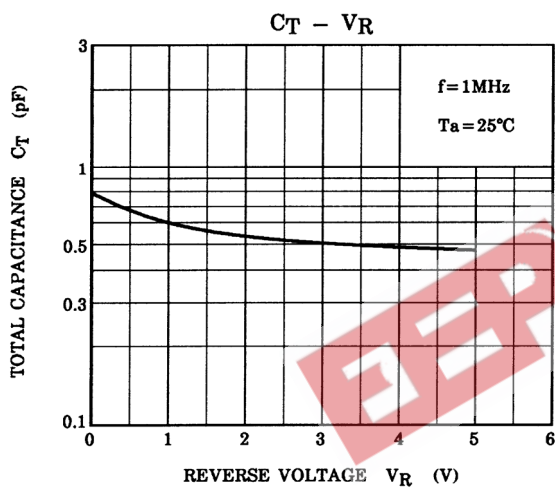
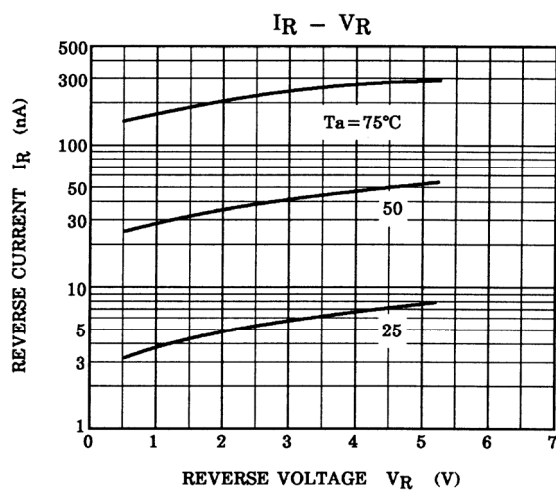
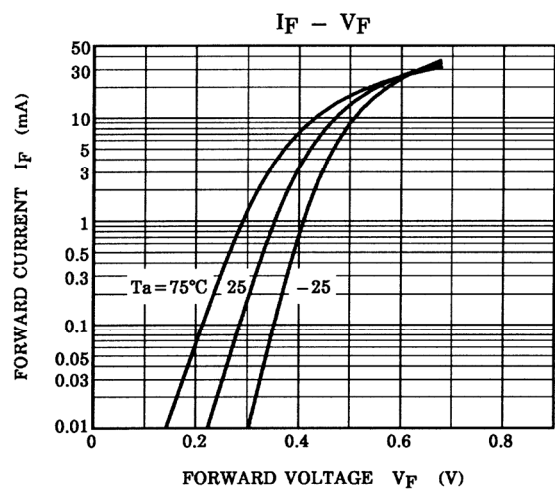
Weight: 0.012 g (typ.)

## Electrical Characteristics (Ta = 25°C)

Characteristics	Symbol	Test Condition	Min	Typ.	Max	Unit
Reverse voltage	$V_R$	$I_R = 10 \mu A$	6	—	—	V
Reverse current	$I_R$	$V_R = 5 V$	—	—	0.5	$\mu A$
Forward voltage	$V_F (1)$	$I_F = 0.1 mA$	—	—	0.35	V
Forward voltage	$V_F (2)$	$I_F = 10 mA$	—	0.5	—	V
Total capacitance	$C_T$	$V_R = 0, f = 1 MHz$	—	0.8	—	pF

## Marking





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20070701-EN

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