

ANTREX Electronics

Electronic Components Sourcing Information

Product Reference Information

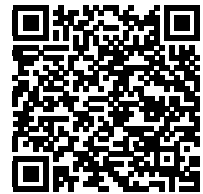
Part Number: 1SV307(TPH3,F)
Manufacturer: Toshiba Semiconductor and Storage
Package: SC-76, SOD-323
Availability: Please confirm with sales

Product Page:

<https://antrexco.com/product/details/toshiba-semiconductor-and-storage-1sv307-tph3-f.html>

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Contact Information

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Quality & Trust

New & Original Components

Supplier verification and packaging condition review

CoC / RoHS / REACH documents available on request

Secure sourcing support for OEM / EMS projects

Note:

This PDF includes an ANTREX product reference cover page.

The original manufacturer datasheet follows from the next page.

TOSHIBA Diode Silicon Epitaxial Pin Type

1SV307

VHF Tuner Band Switch Applications

Unit: mm

- Small package
- Low series resistance: $r_s = 1.1 \Omega$ (typ.)
- Small total capacitance: $C_T = 0.3 \text{ pF}$ (typ.)

Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Characteristics	Symbol	Rating	Unit
Reverse voltage	V_R	30	V
Forward current	I_F	50	mA
Junction temperature	T_j	125	$^\circ\text{C}$
Storage temperature range	T_{stg}	-55 to 125	$^\circ\text{C}$

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).

		USC
JEDEC	—	
JEITA	—	
TOSHIBA	1-1E1A	

Weight: 0.004 g (typ.)

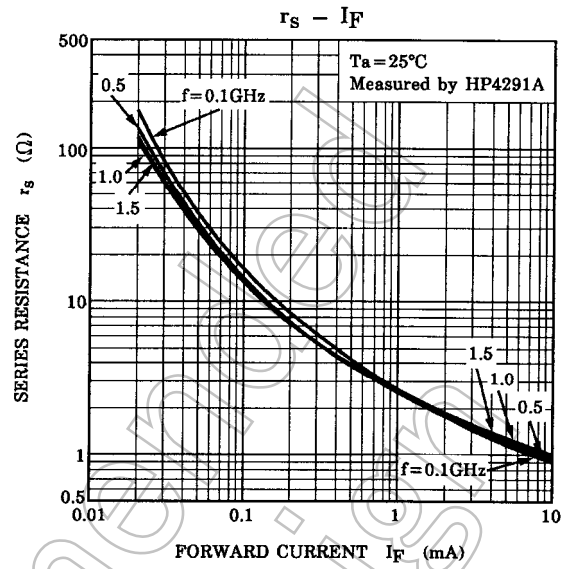
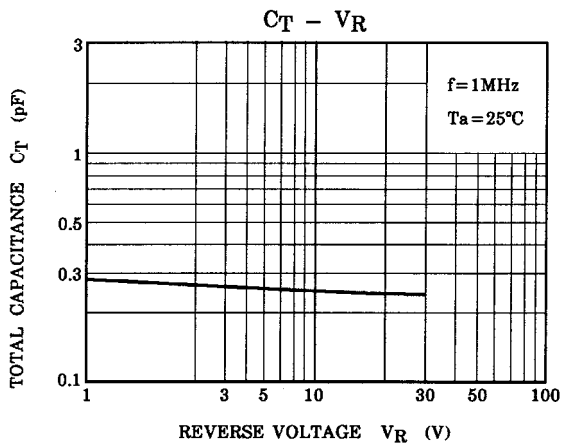
Electrical Characteristics ($T_a = 25^\circ\text{C}$)

Characteristics	Symbol	Test Condition	Min	Typ.	Max	Unit
Reverse voltage	V_R	$I_R = 10 \mu\text{A}$	30	—	—	V
Reverse current	I_R	$V_R = 30 \text{ V}$	—	—	0.1	μA
Forward voltage	V_F	$I_F = 50 \text{ mA}$	—	0.95	1.0	V
Total capacitance	C_T	$V_R = 1 \text{ V}, f = 1 \text{ MHz}$	—	0.3	0.5	pF
Series resistance 1	$r_s (1)$	$I_F = 10 \text{ mA}, f = 100 \text{ MHz}$	—	1.0	1.5	Ω
Series resistance 2	$r_s (2)$	$I_F = 10 \text{ mA}, f = 1.5 \text{ GHz}$	—	1.1	—	Ω

Marking



Start of commercial production
1997-04



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