TOSHIBA Diode Silicon Epitaxial Pin Type

1SV308

VHF Tuner Band Switch Applications

Unit: mm

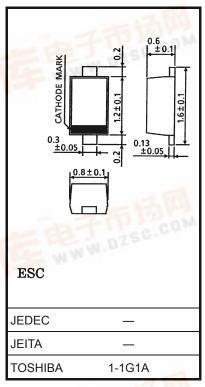
- Small package.
- Low series resistance: $r_s = 1.1 \Omega$ (typ.)
- Small total capacitance: $C_T = 0.3 pF$ (typ.)

Absolute Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit	
Reverse voltage	V _R	30	V	
Forward current	IF	50	mA	
Junction temperature	Tj	125	°C	
Storage temperature range	T _{stg}	-55~125	°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.)



Weight: 0.0014 g (typ.)

Electrical Characteristics (Ta = 25°C)

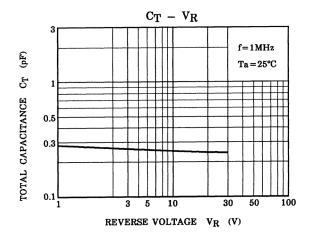
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Reverse voltage	V_{R}	$I_R = 10 \mu A$	30	_	_	V
Reverse current	I _R	V _R = 30 V	_	_	0.1	μА
Forward voltage	V _F	I _F = 50 mA	_	0.95	1.0	V
Total capacitance	C _T	V _R = 1 V, f = 1 MHz	-	0.3	0.5	pF
Series resistance 1	r _{s (1)}	I _F = 10 mA, f = 100 MHz		1.0	1.5	Ω
Series resistance 2	r _{s (2)}	I _F = 10 mA, f = 1.5 GHz		1.1	_	Ω

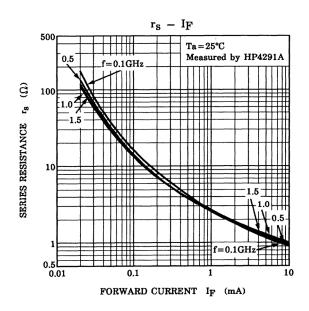
Marking





2007-11-01





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20070701-EN GENERAL

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