TOSHIBA

TOSHIBA Diode Silicon Epitaxial PIN Type

JDP2S02AFS

UHF~VHF Band RF Switch Applications

- Suitable for reducing set's size as a result from enabling high-density mounting due to 2-pin small packages.
- Low series resistance: $r_s = 1.0 \Omega$ (typ.)
- Low capacitance: $C_T = 0.3 \text{ pF}$ (typ.)

Absolute Maximum Ratings (Ta = 25°C)

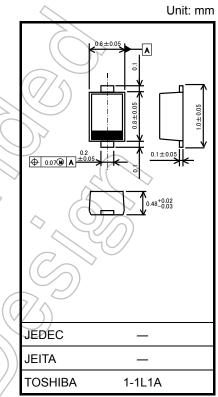
Characteristics	Symbol	Rating	Unit
Reverse voltage	VR	30	
Forward current	١ _F	50	mA
Junction temperature	Tj	150	°C
Storage temperature range	T _{stg}	-55 to 150	°C

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: 0.0006 g (typ.)

Electrical Characteristics (Ta = 25°C)

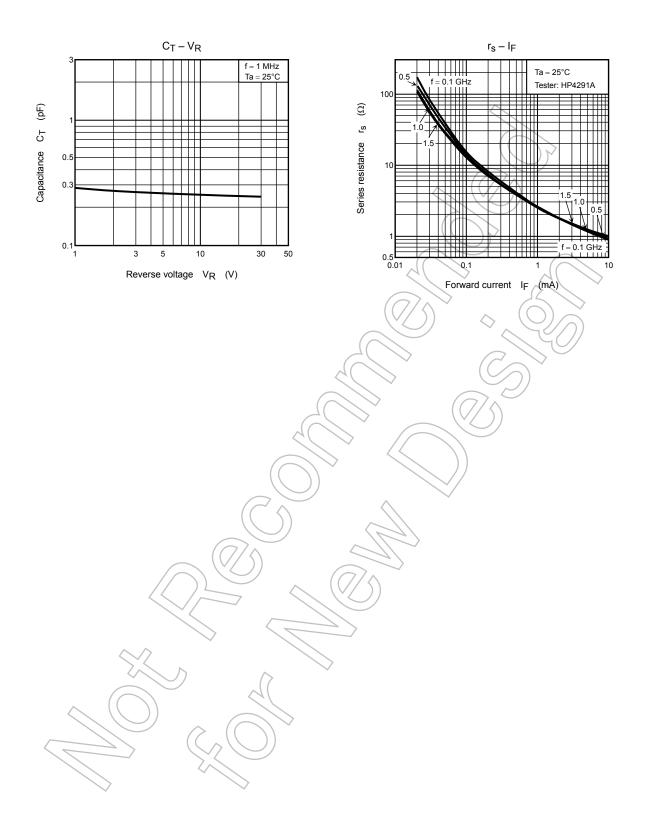
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Reverse voltage	VR	I _R = 10 μA	30	_	_	V
Reverse current	IR	V _R = 30 V	_	_	0.1	μA
Forward voltage	VF	I _F = 50 mA	_	0.9	0.94	V
Capacitance	CCT	V _R = 1 V, f = 1 MHz	_	0.3	0.4	pF
Series resistance	rs	I _F = 10 mA, f = 100 MHz		1.0	1.5	Ω

Note: Signal level when capacitance is measured. Vsig = 100 mVrms

Marking



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