Unit: mm

TOSHIBA Diode Silicon Epitaxial PIN Type

JDP3C02AU

UHF~VHF Band RF Switch Applications

- Suitable for reducing set's size as a result from enabling high-density mounting due to 3-pin small packages.
- Low series resistance: $r_s = 1.0 \Omega$ (typ.)
- Low capacitance: CT = 0.28 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	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).

1.Anode1
2.Anode2
3.Cathode
USM

SOT-323

SC-70

1-2P1B

Weight: 6.3 mg (typ.)

JEDEC

JEITA

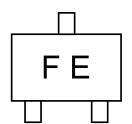
TOSHIBA

Electrical Characteristics (Ta = 25°C)

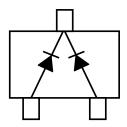
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Reverse voltage	V_{R}	I _R = 10 μA	30	_	_	V
Reverse current	I _R	V _R = 30 V	_	_	0.1	μΑ
Forward voltage	VF	I _F = 50 mA		0.89	0.98	V
Capacitance	C _T	V _R = 1 V, f = 1 MHz	_	0.28	0.48	pF
Series resistance	r _s	I _F = 10 mA, f = 100 MHz		1.0	1.5	Ω

Note: Signal level when capacitance is measured. V_{sig} = 100 mV_{rms}

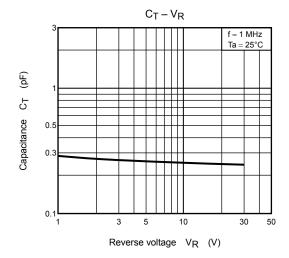
Marking

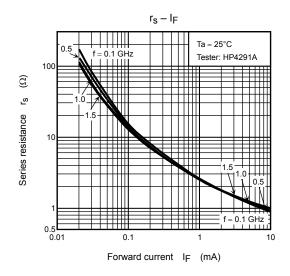


Pin Assignment



Start of commercial production 2008-11





2 2014-03-01

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3