TOSHIBA Diode Silicon Epitaxial Pin Type

JDP4P02U

UHF~VHF Band RF Attenuator Applications

Unit: mm

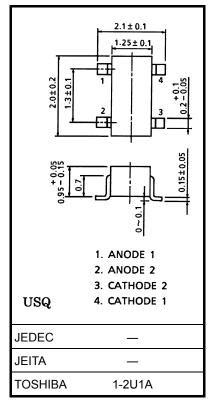
- Two independent diodes are packed into 4-pin ultra-small packages and suitable for high-density mounting.
- Low capacitance: $C_T = 0.3 \text{ pF (typ.)}$
- Low series resistance: $r_S = 1.0 \Omega$ (typ.)

Absolute Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit
Reverse voltage	V_{R}	30	V
Forward current	lF	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: 0.006 g (typ.)

Electrical Characteristics (Ta = 25°C)

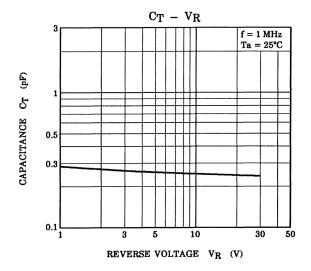
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Reverse voltage	V_{R}	$I_R = 10 \mu A$	30	_	_	V
Reverse current	I _R	V _R = 30 V	_	_	0.1	μА
Forward voltage	V _F	I _F = 50 mA	_	0.95	1.0	V
Capacitance	C _T	V _R = 1 V, f = 1 MHz	_	0.3	0.5	pF
Series resistance	r _S	I _F = 10 mA, f = 100 MHz	_	1.0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

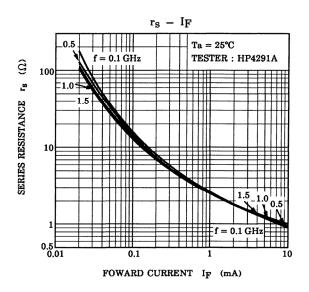
Note: Signal level when capacitance is measured: Vsig = 20 mVrms

Marking



2007-11-01





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20070701-EN GENERAL

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