TOSHIBA Diode Silicon Epitaxial Pin Type

JDP2S01T

UHF~VHF Band RF Attenuator Applications

 Suitable for reducing set's size as a result from enabling high-density mounting due to 2-pin small packages.

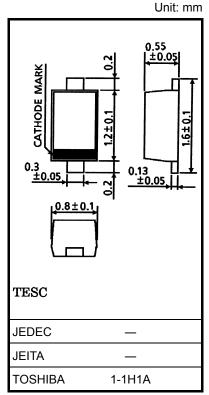
- Low series resistance: $r_s = 0.65 \Omega$ (typ.)
- Low capacitance: $C_T = 0.65 \text{ pF (typ.)}$

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).



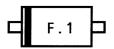
Weight: 0.0013 g (typ.)

Electrical Characteristics (Ta = 25°C)

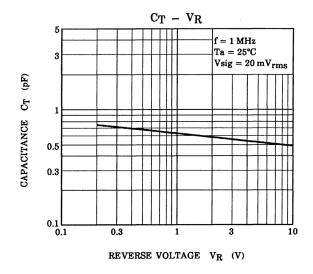
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Reverse voltage	V_{R}	Ι _R = 10 μΑ	30	_	_	V
Reverse current	I _R	V _R = 30 V	_	_	0.1	μА
Forward voltage	V _F	I _F = 50 mA	_	0.87	0.95	V
Capacitance	C _T	V _R = 1 V, f = 1 MHz	_	0.65	0.8	pF
Series resistance	r _S	I _F = 10 mA, f = 100 MHz	_	0.65	1.0	Ω

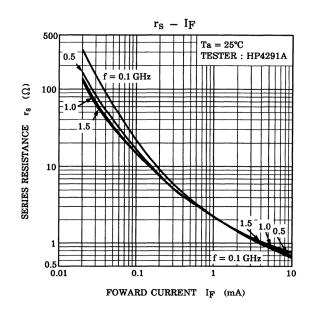
Note: Signal level when capacitance is measured: Vsig = 20 mVrms

Marking



2007-11-01





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RESTRICTIONS ON PRODUCT USE

20070701-EN GENERAL

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