

TOSHIBA Diode Silicon Epitaxial Pin Type

JDP2S04E

VHF~UHF Band RF Attenuator Applications

Unit: mm

- Suitable for reducing set's size as a result from enabling high-density mounting due to 2-pin small packages.
- Low capacitance ratio: $C_T = 0.25$ pF (typ.)
- Low series resistance: $r_s = 3$ Ω (typ.)

Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Characteristics	Symbol	Rating	Unit
Reverse voltage	V_R	50	V
Forward current	I_F	50	mA
Junction temperature	T_j	125	$^\circ\text{C}$
Storage temperature range	T_{stg}	-55 to 125	$^\circ\text{C}$

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).

JEDEC	—
JEITA	—
TOSHIBA	1-1G1A

Weight: 0.0014 g (typ.)

Electrical Characteristics ($T_a = 25^\circ\text{C}$)

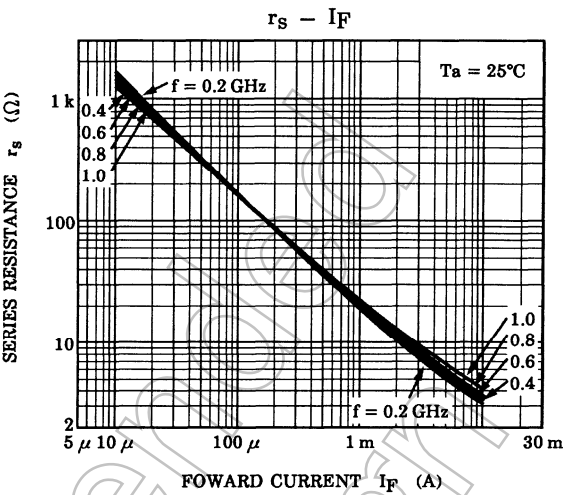
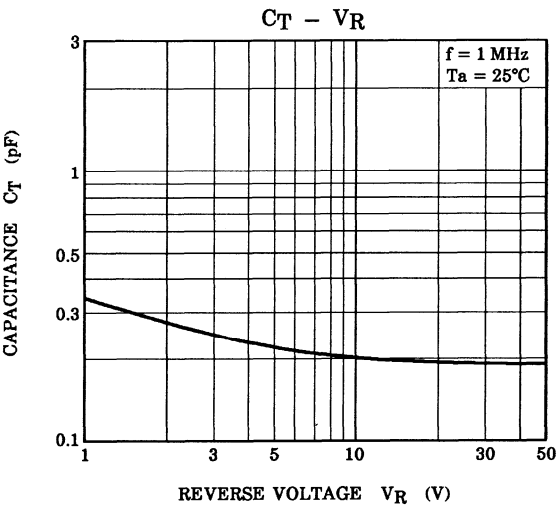
Characteristics	Symbol	Test Condition	Min	Typ.	Max	Unit
Reverse voltage	V_R	$I_R = 10$ μA	50	—	—	V
Reverse current	I_R	$V_R = 50$ V	—	—	0.1	μA
Forward voltage	V_F	$I_F = 50$ mA	—	0.95	1.0	V
Capacitance	C_T	$V_R = 50$ V, $f = 1$ MHz	—	0.25	0.4	pF
Series resistance	r_s	$I_F = 10$ mA, $f = 100$ MHz	—	3.0	—	Ω

Note: Signal level when capacitance is measured: $V_{sig} = 20$ mVrms

Marking



Start of commercial production
1999-09



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