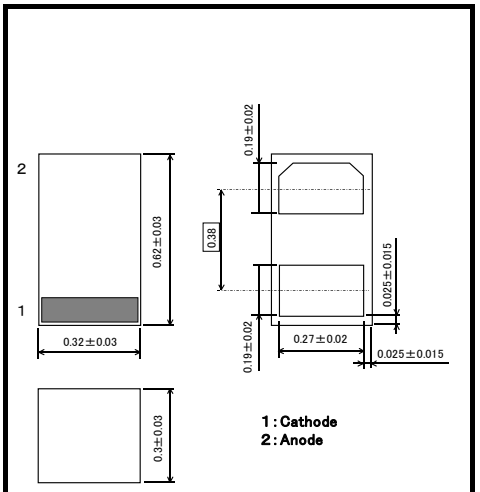
TOSHIBA Diode Silicon Epitaxial PIN Type

JDP2S08SC

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 Ω (typ.)
- Low capacitance: C_T = 0.21 pF (typ.)

Unit: mm



SC2

JEDEC	—
JEITA	—
TOSHIBA	1-1R1A

Weight: 0.00017 g (typ.)

Absolute Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit
Reverse voltage	V_R	30	V
Forward current	I_F	50	mA
Junction temperature	T_j	150	°C
Storage temperature range	T_{stg}	−55 to 150	°C

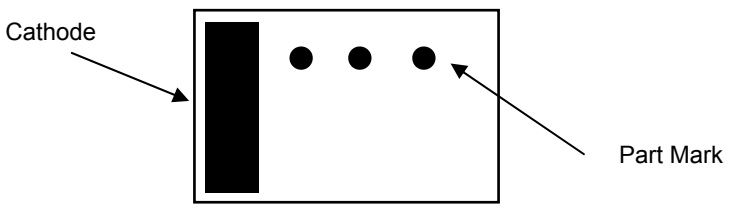
Note: Using continuously under heavy loads (e.g. the application of high temperature/current/voltage and the significant change in temperature, etc.) may cause this product to decrease in the reliability significantly even if the operating conditions (i.e. operating temperature/current/voltage, etc.) 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).

Electrical Characteristics (Ta = 25°C)

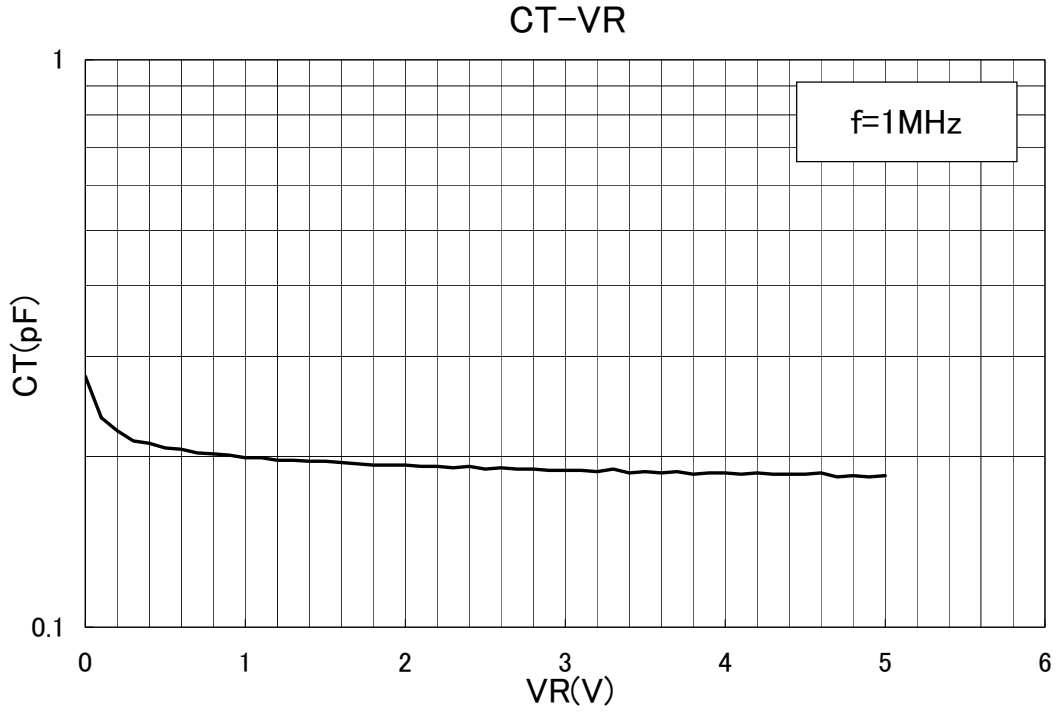
Characteristics	Symbol	Test Condition	Min	Typ.	Max	Unit
Reverse voltage	V_R	I_R = 10 μA	30	—	—	V
Reverse current	I_R	V_R = 30 V	—	—	0.1	μA
Forward voltage	V_F	I_F = 50 mA	—	0.89	0.95	V
Capacitance(Note2)	C_T	V_R = 1 V, f = 1 MHz	—	0.21	0.4	pF
Series resistance	r_s	I_F = 10 mA, f = 100 MHz	—	1.0	1.5	Ω

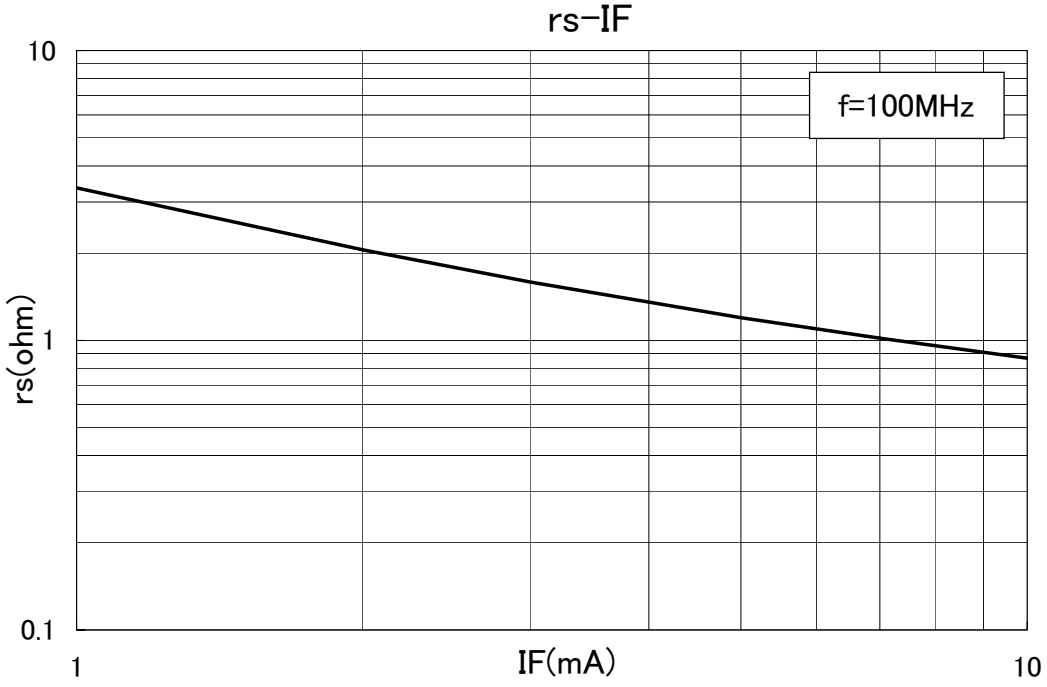
Note1: Signal level when capacitance is measured. V_{sig} = 100 mV_{rms}

Marking



Start of commercial production
2004-11


CT-VR
f=1MHz
CT(pF)
1
0.1
0
1
2
3
4
5
6
VR(V)


rs-IF
f=100MHz
rs(ohm)
10
1
0.1
1
10
IF(mA)

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