

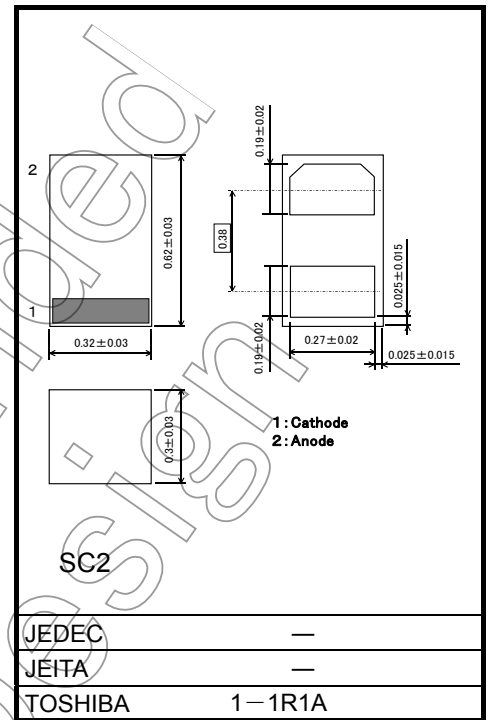
TOSHIBA Diode Silicon Epitaxial PIN Type

JDP2S05SC

UHF to 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: $r_s = 1.5 \Omega$ (typ.)
- Low capacitance: $C_T = 0.24 \text{ pF}$ (typ.)
- Lead(Pb)-Free

Unit: mm



Absolute Maximum Ratings (Ta = 25°C)

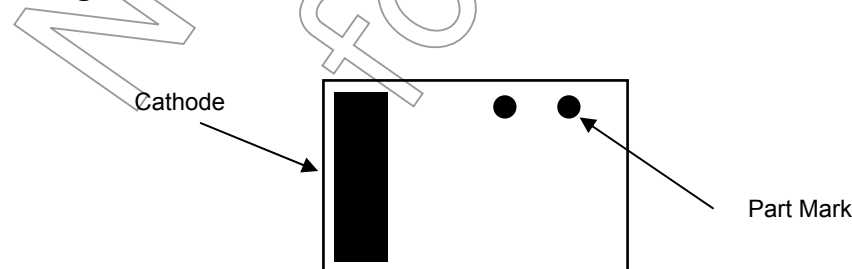
Characteristics	Symbol	Rating	Unit
Reverse voltage	V_R	20	V
Forward current	I_F	50	mA
Junction temperature	T_j	150	°C
Storage temperature range	T_{stg}	-55 to 150	°C

Electrical Characteristics (Ta = 25°C)

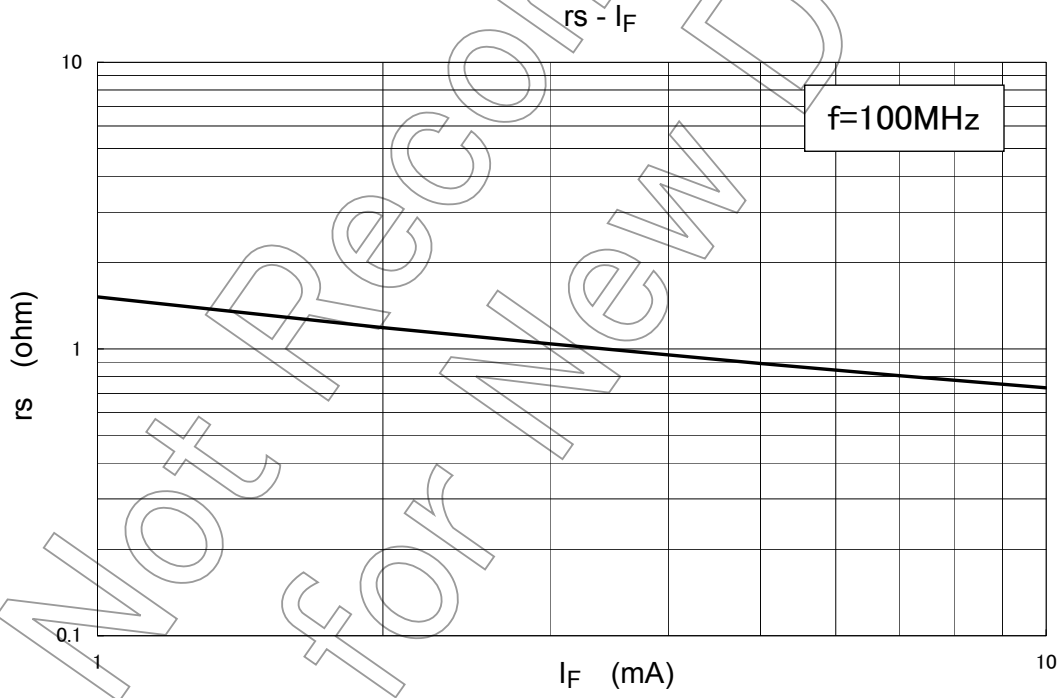
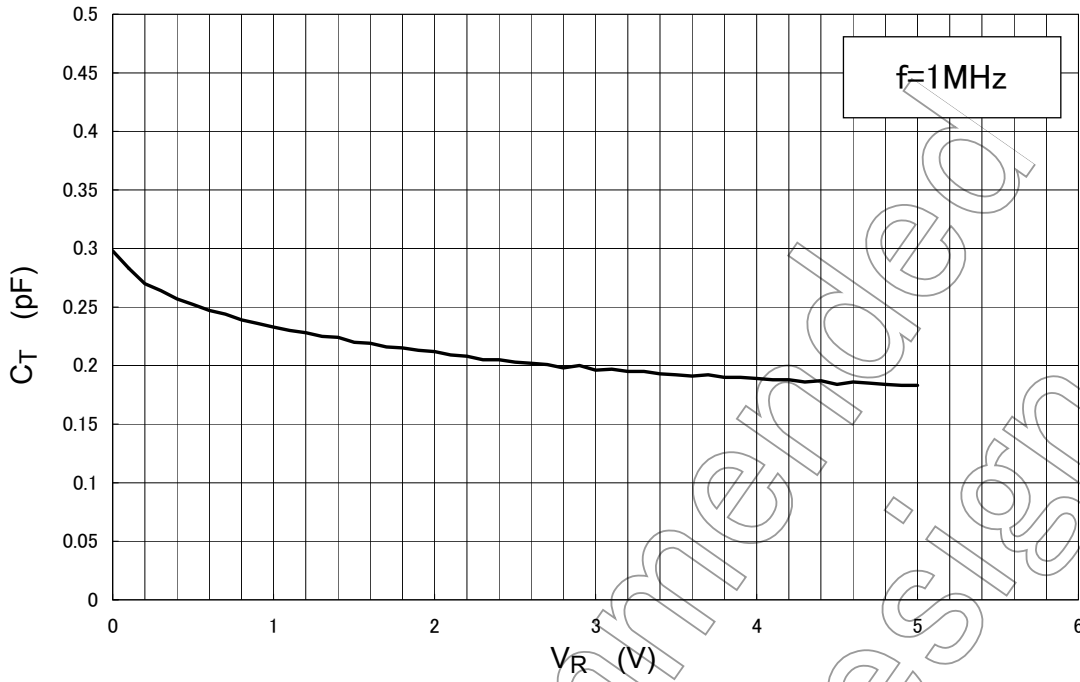
Characteristics	Symbol	Test Condition	Min	Typ.	Max	Unit
Reverse voltage	V_R	$I_R = 0.1 \mu\text{A}$	20	—	—	V
Reverse current	I_R	$V_R = 20 \text{ V}$	—	—	0.1	μA
Forward voltage	V_F	$I_F = 50 \text{ mA}$	—	—	0.95	V
Capacitance(Note1)	C_T	$V_R = 1 \text{ V}, f = 1 \text{ MHz}$	—	0.24	0.35	pF
Series resistance	r_s	$I_F = 1 \text{ mA}, f = 100 \text{ MHz}$	—	1.5	2.2	Ω

Note1: Signal level when capacitance is measured. $V_{sig} = 100 \text{ mVrms}$

Marking



$C_T - V_R$



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