

TOSHIBA Diode Silicon Epitaxial Pin Type

# JDP4P02U

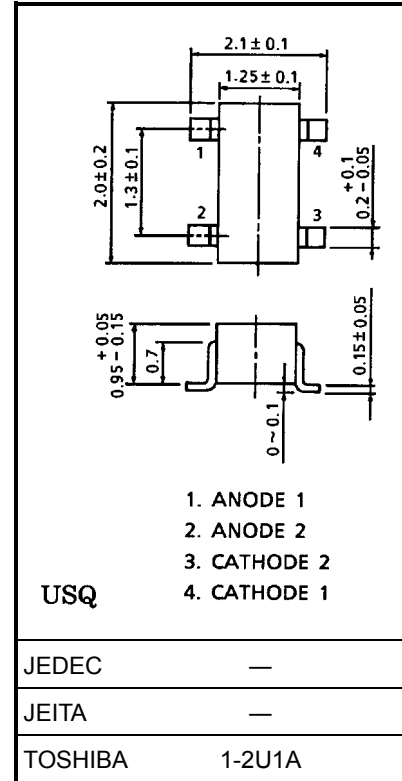
## UHF~VHF Band RF Attenuator Applications

- 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.)

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

Characteristics	Symbol	Rating	Unit
Reverse voltage	$V_R$	30	V
Forward current	$I_F$	50	mA
Junction temperature	$T_j$	125	$^\circ\text{C}$
Storage temperature range	$T_{stg}$	-55~125	$^\circ\text{C}$

Unit: mm



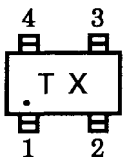
Weight: 0.006 g (typ.)

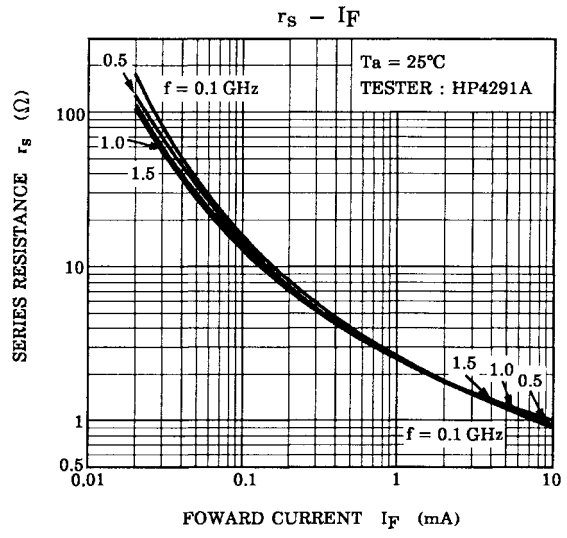
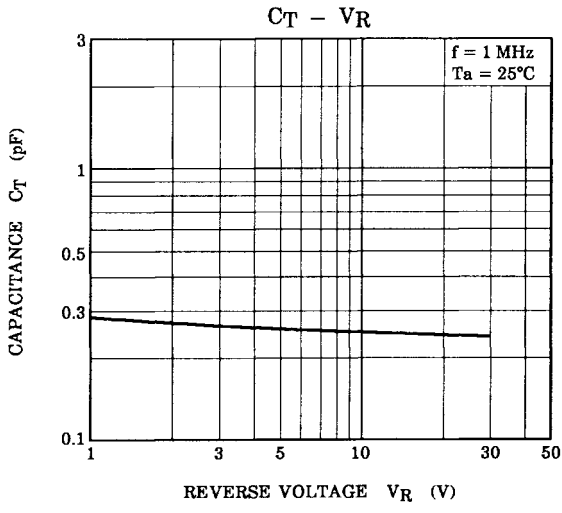
### Electrical Characteristics ( $T_a = 25^\circ\text{C}$ )

Characteristics	Symbol	Test Condition	Min	Typ.	Max	Unit
Reverse voltage	$V_R$	$I_R = 10 \ \mu\text{A}$	30	—	—	V
Reverse current	$I_R$	$V_R = 30 \text{ V}$	—	—	0.1	$\mu\text{A}$
Forward voltage	$V_F$	$I_F = 50 \text{ mA}$	—	0.95	1.0	V
Capacitance	$C_T$	$V_R = 1 \text{ V}, f = 1 \text{ MHz}$	—	0.3	0.5	pF
Series resistance	$r_s$	$I_F = 10 \text{ mA}, f = 100 \text{ MHz}$	—	1.0	—	$\Omega$

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

### Marking





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