

TOSHIBA Diode Silicon Epitaxial Pin Type

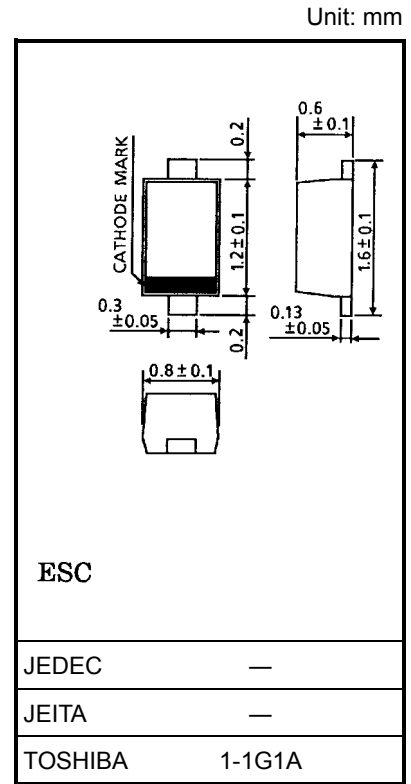
# JDP2S01E

## 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.)

### Maximum Ratings (Ta = 25°C)

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



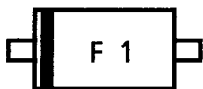
### Electrical Characteristics (Ta = 25°C)

Weight: 0.0014 g (typ.)

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	$V_F$	$I_F = 50 \text{ mA}$	—	0.9	0.95	V
Capacitance	$C_T$	$V_R = 1 \text{ V}, f = 1 \text{ MHz}$	—	0.65	0.8	pF
Series resistance	$r_s$	$I_F = 10 \text{ mA}, f = 100 \text{ MHz}$	—	0.65	1.0	$\Omega$

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

### Marking



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