

TOSHIBA DIODE SILICON EPITAXIAL PIN TYPE

JDP2S01U

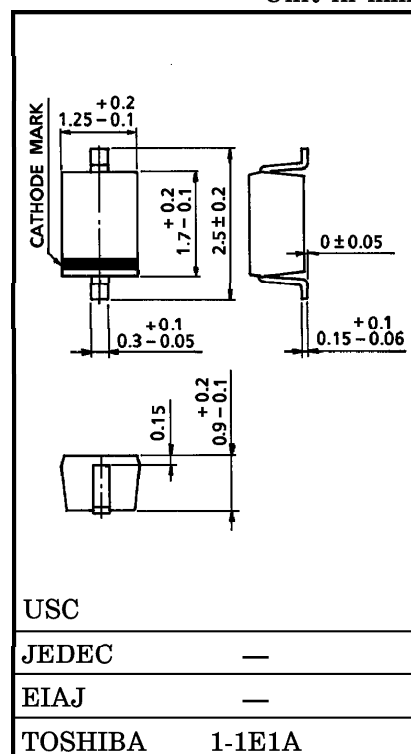
UHF~VHF BAND RF ATTENUATOR APPLICATIONS

Unit in mm

- 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 : $C_T = 0.7 \text{ pF}$ (Typ.)

MAXIMUM RATINGS ($T_a = 25^\circ\text{C}$)

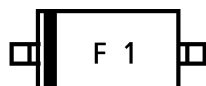
CHARACTERISTIC	SYMBOL	RATING	UNIT
Reverse Voltage	V_R	30	V
Forward Current	I_F	50	mA
Junction Temperature	T_j	125	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	$-55 \sim 125$	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ\text{C}$)

CHARACTERISTIC	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	μA
Forward Voltage	V_F	$I_F = 50 \text{ mA}$	—	0.9	0.95	V
Capacitance	C_T	$V_R = 1 \text{ V}, f = 1 \text{ MHz}$	—	0.7	0.9	pF
Series Resistance	r_s	$I_F = 10 \text{ mA}, f = 100 \text{ MHz}$	—	0.65	1.0	Ω

* Signal level when capacitance is measured : $V_{sig} = 20 \text{ mV}_{rms}$

MARKING



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