

TOSHIBA DIODE SILICON EPITAXIAL PIN TYPE

1SV312

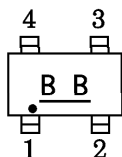
VHF~UHF BAND RF ATTENUATOR APPLICATIONS

- Two independent diodes mounted onto a 4-pin ultra compact package and it is suitable for high-density circuit design.
- Low Capacitance : $C_T = 0.25 \text{ pF}$ (Typ.)
- Low Series Resistance : $r_s = 3 \Omega$ (Typ.)

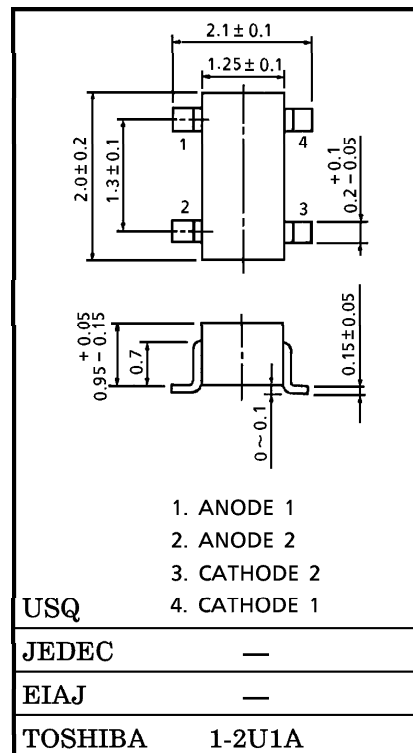
MAXIMUM RATINGS ($T_a = 25^\circ\text{C}$)

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

MARKING



Unit in mm

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

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX	UNIT
Reverse Voltage	V_R	$I_R = 10 \mu\text{A}$	50	—	—	V
Reverse Current	I_R	$V_R = 50 \text{ V}$	—	—	0.1	μA
Forward Voltage	V_F	$I_F = 50 \text{ mA}$	—	0.95	1	V
Total Capacitance	C_T	$V_R = 50 \text{ V}, f = 1 \text{ MHz}$	—	0.25	0.4	pF
Series Resistance	r_s	$I_F = 10 \text{ mA}, f = 100 \text{ MHz}$	—	3	—	Ω

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