

TOSHIBA DIODE SILICON EPITAXIAL PIN TYPE

## 1SV312

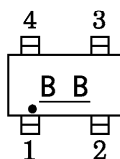
VHF~UHF BAND RF ATTENUATOR APPLICATIONS

- 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.)

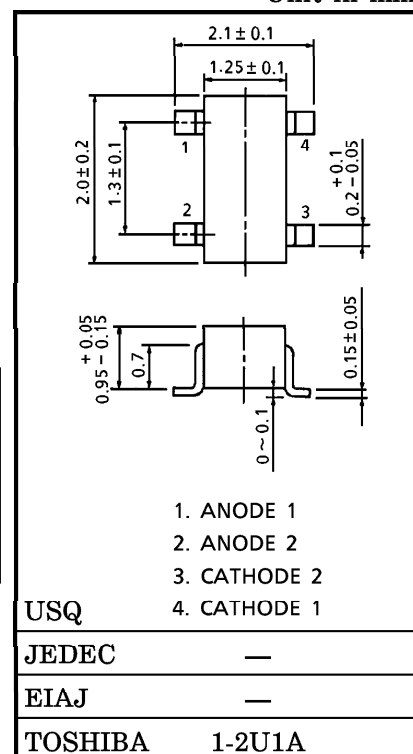
MAXIMUM RATINGS ( $T_a = 25^\circ\text{C}$ )

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

MARKING



Unit in mm



Weight : 0.006 g

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	$\mu\text{A}$
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	—	$\Omega$

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