TOSHIBA 1SV312

TOSHIBA DIODE SILICON EPITAXIAL PIN TYPE

1 S V 3 1 2

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 : $C_T = 0.25 pF (Typ.)$

Low Series Resistance : $r_S = 3\Omega$ (Typ.)

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATIN	UNIT
Reverse Voltage	$V_{ m R}$	50	V
Forward Current	$I_{\mathbf{F}}$	50	mA
Junction Temperature	T_{j}	125	°C
Storage Temperature Range	$\mathrm{T_{stg}}$	-55~125	°C

MARKING



Unit in mm 2.1 ± 0.1 1.25 ± 0.1 1. ANODE 1 2. ANODE 2 3. CATHODE 2 4. CATHODE 1 USQ **JEDEC** EIAJ **TOSHIBA** 1-2U1A

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX	UNIT
Reverse Voltage	v_{R}	$I_R = 10 \mu A$	50	_	_	V
Reverse Current	$I_{\mathbf{R}}$	$V_R=50V$	_	_	0.1	μ A
Forward Voltage	$V_{\mathbf{F}}$	$I_{\mathbf{F}} = 50 \text{mA}$	_	0.95	1	V
Total Capacitance	C_{T}	V_R =50V, f=1MHz	_	0.25	0.4	pF
Series Resistance	r_{S}	I_{F} =10mA, f=100MHz	-	3	_	Ω

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