Unit in mm

TOSHIBA VARIABLE CAPACITANCE DIODE SILICON EPITAXIAL PLANAR TYPE

1 S V 2 3 0

CATV CONVERTER 1st OSC TUNING.

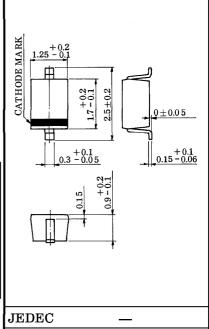
 $\bullet \quad \text{ High Capacitance Ratio } : C_{2V} \, / \, C_{20V} \, = \, 8 \, (\text{Typ.})$

• Low Series Resistance : $r_S = 0.73\Omega$ (Typ.)

• Useful for Small Size Tuner.

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Reverse Voltage	$v_{ m R}$	30	V
Peak Reverse Voltage	v_{RM}	$(R_L = 10 \mathrm{k}\Omega)$	V
Junction Temperature	$T_{ m j}$	125	°C
Storage Temperature Range	$\mathrm{T_{stg}}$	-55~125	°C



JEDEC —
EIAJ —
TOSHIBA 1-1E1A

Weight: 0.004g

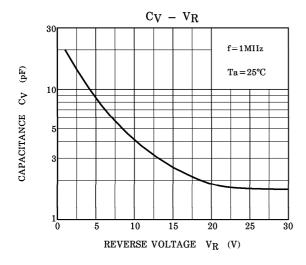
ELECTRICAL CHARACTERISTICS (Ta = 25°C)

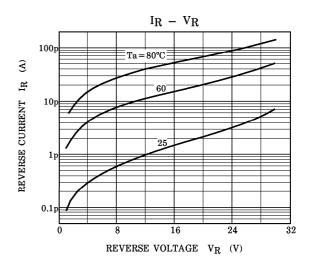
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Reverse Voltage	$v_{ m R}$	$I_R = 1 \mu A$	30		_	V
Reverse Current	$I_{\mathbf{R}}$	$V_R = 28V$		1	10	nA
Capacitance	C_{2V}	$V_R=2V$, f=1MHz	13.9	15	16.1	pF
Capacitance	C_{20V}	V_R =20V, f=1MHz	1.7	1.9	2.1	pF
Capacitance Ratio	C_{2V}/C_{20V}	_	7.1	8	_	_
Series Resistance	$ \mathbf{r}_{\mathrm{S}} $	V_R =5V, f=470MHz	_	0.73	0.9	Ω

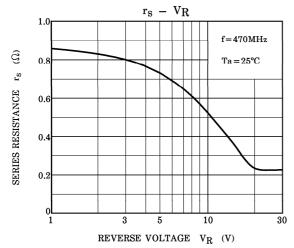
Marking

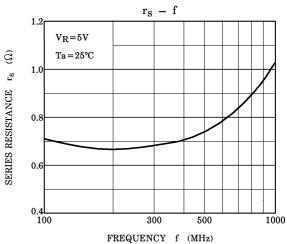


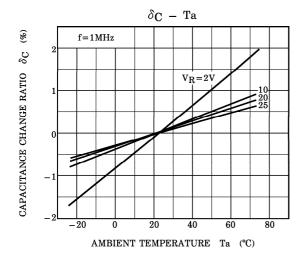
1 2001-05-31











NOTE :
$$\delta_{\text{C}}$$
 (%) = $\frac{\text{C (Ta)} - \text{C (25)}}{\text{C (25)}} \times 100$

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000707EAA

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