TOSHIBA VARIABLE CAPACITANCE DIODE SILICON EPITAXIAL PLANAR TYPE

1 S V 2 3 0

CATV CONVERTER 1st OSC TUNING.

High Capacitance Ratio: C2V/C20V=8 (Typ.)

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

WWW.BZSC.COM Useful for Small Size Tuner.

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Reverse Voltage	$V_{\mathbf{R}}$	30	V
Peak Reverse Voltage	V_{RM}	$\begin{array}{c} 35 \\ (R_L = 10 \text{k}\Omega) \end{array}$	V
Junction Temperature	T_{j}	125	°C
Storage Temperature Range	$ m T_{stg}$	_55~125	°C

Unit in mm

CATHODE MARK 10.15 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7	0.15 + 0.1 0.15 - 0.06
JEDEC	

JEDEC	_	
EIAJ	_	
TOSHIBA	1-1E1A	100

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

		L±	ODITIDIT	1-1.		
	Weight: 0.004g		750	COM		
ELECTRICAL CHARACTERISTICS		WWW.DZ				
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Reverse Voltage	v_{R}	$I_R = 1 \mu A$	30		_	V
Reverse Current	I_{R}	$V_{R}=28V$		_	10	nA
Capacitance	C_{2V}	$V_R=2V$, $f=1MHz$	13.9	15	16.1	pF
Ca <mark>pac</mark> itance	C_{20V}	V_R =20V, f=1MHz	1.7	1.9	2.1	pF
Capacitance Ratio	C_{2V}/C_{20V}	_	7.1	8	47	
Series Resistance	$ \mathbf{r_S} $	V_R =5V, f=470MHz	47	0.73	0.9	Ω

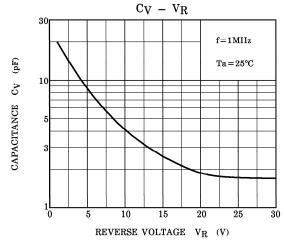
Marking

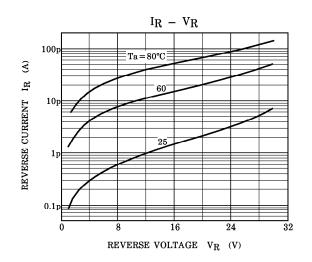
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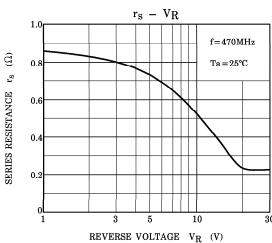
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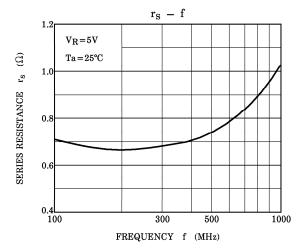
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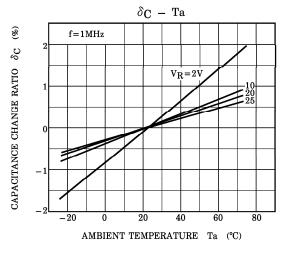
TOSHIBA 15V230











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