TOSHIBA VARIABLE CAPACITANCE DIODE SILICON EPITAXIAL PLANAR TYPE

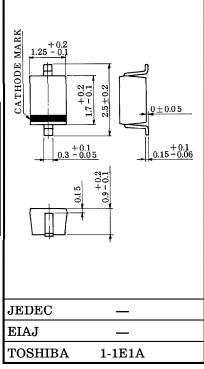
1 S V 2 1 6

TV VHF UHF TUNER AFC

Unit in mm

MAXIMUM RATINGS (Ta = 25°C)

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



Weight: 0.004g

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Reverse Voltage	v_{R}	$I_R = 1 \mu A$	30			V
Reverse Current	$ _{ m I_R}$	$V_{R}=28V$		_	10	nA
Capacitance	C_{2V}	$V_R=2V$, $f=1MHz$	10.5	_	16	рF
Capacitance	$ _{\mathrm{C_{10V}}}$	$V_R = 10V$, $f = 1MHz$	3.3	_	5.7	рF
Capacitance Ratio	C_{2V}/C_{10V}	_	2.5	_	3.4	
Series Resistance	$ { m r_S} $	V_R =5 V , f=470 M Hz	_	0.55	1.2	Ω

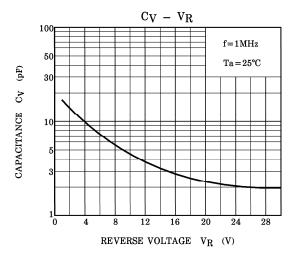
Marking

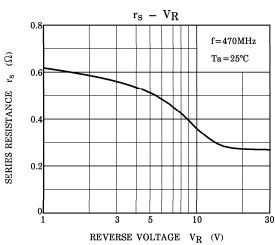


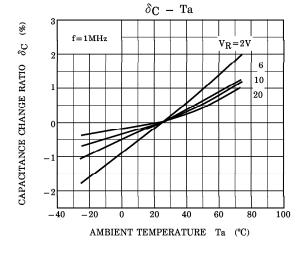
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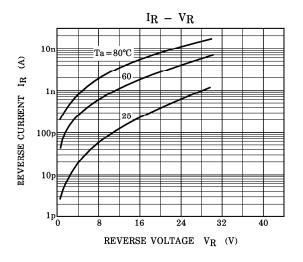
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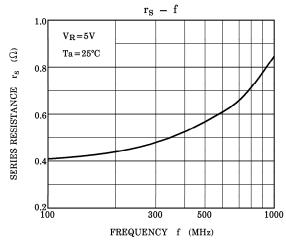
The information contained herein is subject to change without notice.











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