Unit in mm

TOSHIBA VARIABLE CAPACITANCE DIODE SILICON EPITAXIAL PLANAR TYPE

1 S V 2 3 0

CATV CONVERTER 1st OSC TUNING.

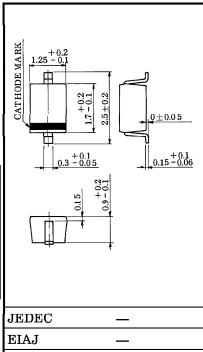
High Capacitance Ratio : $C_{2V}/C_{20V}=8$ (Typ.)

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 | $V_{\mathbf{R}}$ | 30 | V |
| Peak Reverse Voltage | V_{RM} | $\begin{array}{ c c }\hline 35\\ (R_L\!=\!10k\Omega)\end{array}$ | V |
| Junction Temperature | T_{j} | 125 | °C |
| Storage Temperature Range | $T_{ m stg}$ | -55~125 | $^{\circ}\mathrm{C}$ |



| JEDEC | _ | |
|---------|--------|--|
| EIAJ | _ | |
| TOSHIBA | 1-1E1A | |

Weight: 0.004g

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

| CHARACTERISTIC | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNIT |
|-------------------|------------------|---------------------|------|------|------|------|
| Reverse Voltage | v_{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 |
| Capacitance | C_{20V} | V_R =20V, f=1MHz | 1.7 | 1.9 | 2.1 | рF |
| Capacitance Ratio | C_{2V}/C_{20V} | | 7.1 | 8 | _ | _ |
| Series Resistance | r_s | V_R =5V, f=470MHz | _ | 0.73 | 0.9 | Ω |

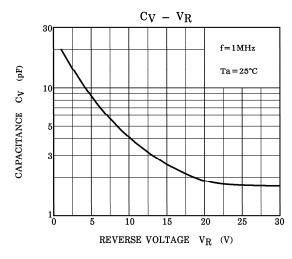
Marking

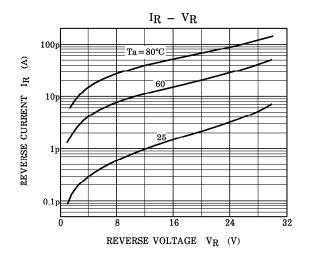


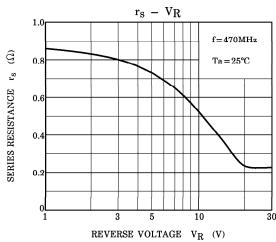
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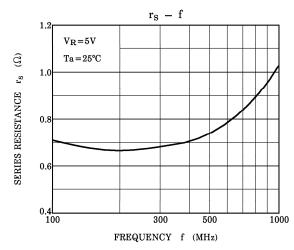
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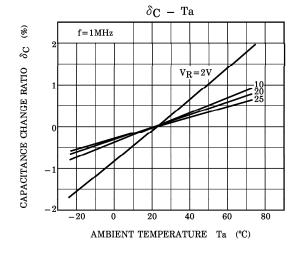
The information contained herein is subject to change without notice.











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