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1SV161

Silicon Epitaxial Planar Type

Variable Capacitance Diode

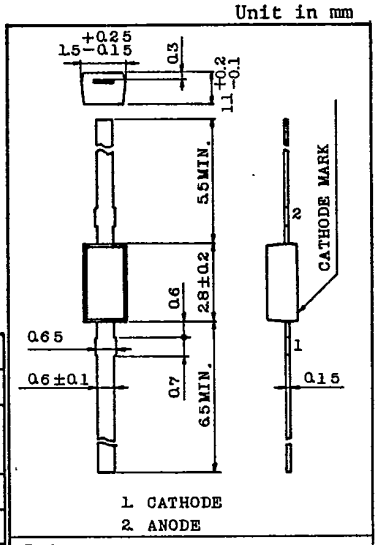
TENTATIVE

CATV TUNING.

FEATURES:

- High Capacitance Ratio : C_{2V}/C_{25V}=10.5 (Typ.)
- Low Series Resistance : r_S=0.6Ω (Typ.)

Unit in mm



1. CATHODE
2. ANODE

JEDEC	−
EIAJ	−
TOSHIBA	1-2J1A

Weight : 0.02g

MAXIMUM RATINGS (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Reverse Voltage	V_R	30	V
Peak Reverse Voltage	V_{RM}	35 (R_L=10kΩ)	V
Junction Temperature	T_j	125	°C
Storage Temperature Range	T_{stg}	−55~125	°C

ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Reverse Voltage	V_R	I_R=1μA	30	−	−	V
Reverse Current	I_R	V_R=28V	−	−	10	nA
Capacitance	C_{2V}	V_R=2V, f=1MHz	26	−	32	pF
Capacitance	C_{25V}	V_R=25V, f=1MHz	2.5	−	3.2	pF
Capacitance Ratio	C_{2V}/C_{25V}	−	9.5	10.5	−	
Series Resistance	r_s	V_R=5V, f=470MHz	−	0.6	0.8	Ω

Note : Available in matched group for capacitance to 2.5%.

$$\frac{C(Max.) - C(Min.)}{C(Min.)} \leqq 0.025$$

(V_R=2~25V)

CATHODE MARK: YELLOW