

9097250 TOSHIBA (DISCRETE/OPTO)

67C 09374 DT-07-19

Silicon Epitaxial Planar Type
Variable Capacitance Diode

1SV153

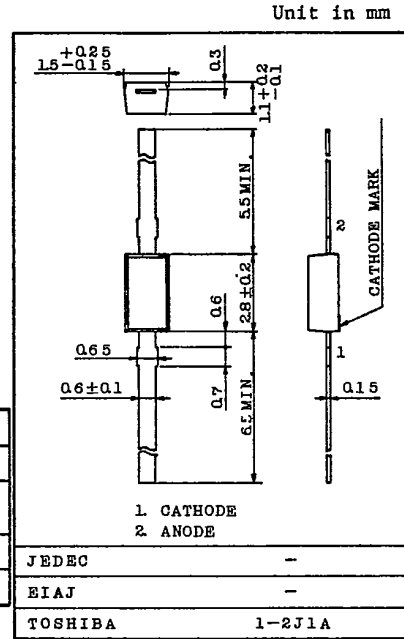
TV TUNING.

FEATURES:

- High Capacitance Ratio : $C_{2V}/C_{25V}=6.5$ (Typ.)
- Low Series Resistance : $r_s=0.45\Omega$ (Typ.)

MAXIMUM RATINGS (Ta=25°C)

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



ELECTRICAL CHARACTERISTICS (Ta=25°C)

Weight : 0.02g

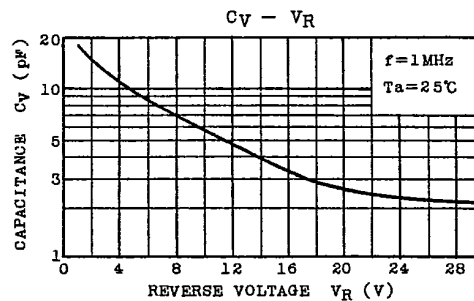
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Reverse Voltage	V_R	$I_R=1\mu A$	30	-	-	V
Reverse Current	I_R	$V_R=28V$	-	-	10	nA
Capacitance	C_{2V}	$V_R=2V, f=1MHz$	14.16	-	16.25	pF
Capacitance	C_{25V}	$V_R=25V, f=1MHz$	2.11	-	2.43	pF
Capacitance Ratio	C_{2V}/C_{25V}	-	5.90	-	7.15	
Series Resistance	r_s	$C=9pF, f=470MHz$	-	-	0.6	Ω

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

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

($V_R=2 \sim 25V$)

CATHODE MARK: RED



TOSHIBA CORPORATION

This datasheet has been downloaded from:

www.DatasheetCatalog.com

Datasheets for electronic components.



LittleDiode supplies new, hard to find or obsolete electronic components and semiconductors all over the world.

With over two million different components listed you are sure to find the part you need.

Feel free to visit us today at our online store:

LittleDiode.com

Looking forward to providing you with the best possible service.