

TOSHIBA

HN2V02H

TOSHIBA TRANSISTOR SILICON EPITAXIAL PLANAR TYPE

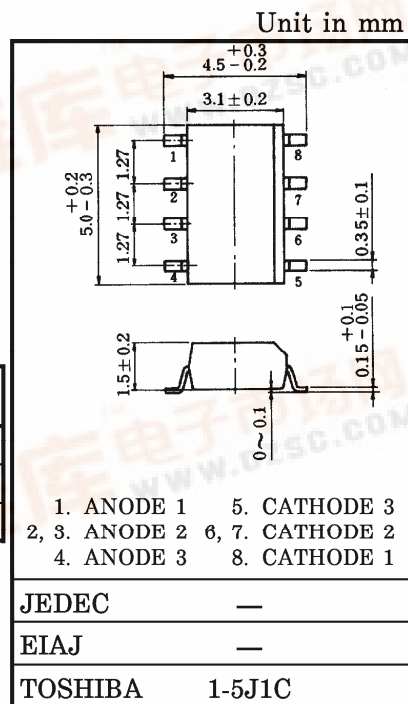
HN2V02H

AM RADIO BAND TUNING APPLICATIONS.

- High Capacitance Ratio : $C1V / C8V = 19.5$ (Typ.)
- High Q : $Q = 200$ (Min.)
- Including Three Devices in FM8 Package (Flat Pack Mini 8Pin)
- Low Voltage Operation : $V_R = 1 \sim 8V$

MAXIMUM RATINGS ($T_a = 25^\circ C$) (D_1 , D_2 , D_3)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Reverse Voltage	V_R	16	V
Junction Temperature	T_j	125	$^\circ C$
Storage Temperature Range	T_{stg}	$-55 \sim 125$	$^\circ C$



ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ C$) (D_1 , D_2 , D_3)

Weight : 0.05g

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Reverse Voltage	V_R	$I_R = 10 \mu A$	16	—	—	V
Reverse Current	I_R	$V_R = 16V$	—	—	20	nA
Capacitance	$C1V$	$V_R = 1V, f = 1MHz$	435	—	540	pF
Capacitance	$C3V$	$V_R = 3V, f = 1MHz$	140	—	250	pF
Capacitance	$C5V$	$V_R = 5V, f = 1MHz$	50.0	—	90.0	pF
Capacitance	$C8V$	$V_R = 8V, f = 1MHz$	19.9	—	26.7	pF
Capacitance Ratio	$C1V / C8V$	—	16.2	19.5	—	—
Figure of Merit	Q	$V_R = 1V, f = 1MHz$	200	—	—	—

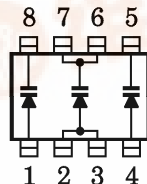
Note 1 : Three Devices in one Package are matched for capacitance to 2.5%.

$$\frac{C(\text{Max.}) - C(\text{Min.})}{C(\text{Min.})} \leq 0.025 \quad (V_R = 1 \sim 8V)$$

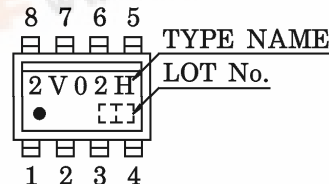
Note 2 : $C8V$ is divided into two classifications as follows.

Classification	$C8V$ (pF)
A	19.9~23.7
B	22.4~26.7

PIN ASSIGNMENT
(TOP VIEW)



MARKING



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