

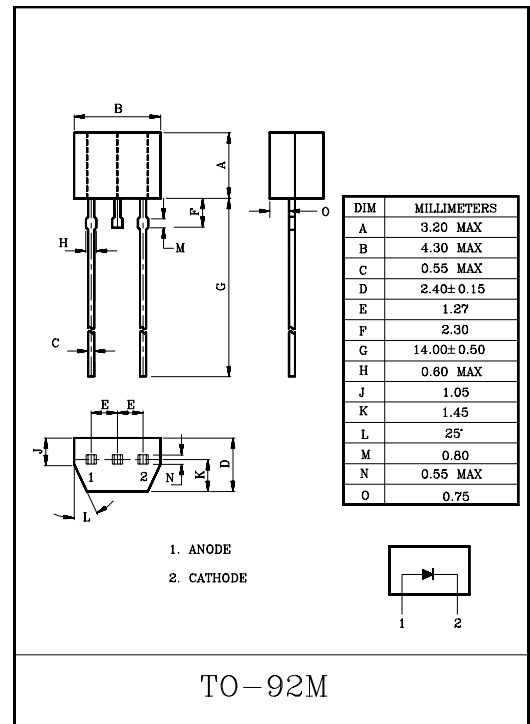
AM RADIO BAND TUNING APPLICATION.

FEATURES

- High Capacitance Ratio : $C_{1V}/C_{8V}=19.5$ (Typ.).
- High Q : $Q=200$ (Min.).
- Small Package.
- Low Voltage Operation. : 1V~8V.

MAXIMUM RATINGS ($T_a=25^\circ\text{C}$)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Reverse Voltage	V_R	15	V
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-55~150	$^\circ\text{C}$



ELECTRICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Reverse Voltage	V_R	$I_R=10\mu\text{A}$	15	-	-	V
Reverse Current	I_R	$V_R=15\text{V}$	-	-	50	nA
Capacitance	C_{1V}	$V_R=1\text{V}, f=1\text{MHz}$	435	-	540	pF
	C_{8V}	$V_R=8\text{V}, f=1\text{MHz}$	21	-	30	
Capacitance Ratio	C_{1V}/C_{8V}		16	19.5	22	
Figure of Merit	Q	$V_R=1\text{V}, f=1\text{MHz}$	200	450	-	

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

KDV149

TEST CONDITION (f=1MHz, Ta=25℃)

Grade	No.	C _{1V} (pF)	No.	C _{1V} /C _{3V}	No.	C _{1V} /C _{5V}	No.	C _{1V} /C _{8V}
A (162 Grade)	1	435~450	1	2.30~2.42	1	5.50~6.52	1	16.0~18.5
	2	445~460	2	2.38~2.52	2	6.48~7.52	2	18.0~20.0
			3	2.48~2.62	3	7.48~8.50	3	19.5~22.0
			4	2.58~2.72				
			5	2.68~2.82				
			6	2.78~2.92				
			7	2.88~3.02				
			8	2.98~3.12				
			9	3.08~3.20				
B (270 Grade)	3	455~470	0	2.20~2.32	1	5.50~6.52	1	16.0~18.5
	4	465~480	1	2.28~2.42	2	6.48~7.52	2	18.0~20.0
	5	475~490	2	2.38~2.52	3	7.48~8.50	3	19.5~22.0
			3	2.48~2.62				
			4	2.58~2.72				
			5	2.68~2.82				
			6	2.78~2.92				
			7	2.88~3.02				
			8	2.98~3.12				
C (162 Grade)	6	485~500	1	2.20~2.32	1	5.50~6.52	1	16.0~18.5
	7	495~510	2	2.28~2.42	2	6.48~7.52	2	18.0~20.0
			3	2.38~2.52	3	7.48~8.50	3	19.5~22.0
			4	2.48~2.62				
			5	2.58~2.72				
			6	2.68~2.82				
			7	2.78~2.92				
			8	2.88~3.02				
			9	2.98~3.10				
D (162 Grade)	8	505~525	1	2.10~2.22	1	5.50~6.52	1	16.0~18.5
	9	520~540	2	2.18~2.32	2	6.48~7.52	2	18.0~20.0
			3	2.28~2.42	3	7.48~8.50	3	19.5~22.0
			4	2.38~2.52				
			5	2.48~2.62				
			6	2.58~2.72				
			7	2.68~2.82				
			8	2.78~2.92				
			9	2.88~3.00				

(1) This table is not selection guide, which means only to show the data.

(2) The number on the vinyl package (on the label in the vinyl package) is to show the capacitance data at each voltage in a matched group.

Example : A - 1 - 2 - 3 - 3
(C_{1V}) (C_{1V}/C_{3V}) (C_{1V}/C_{5V}) (C_{1V}/C_{8V})

