

Variable capacitance diode for AM tuning
AMチューナ用電圧可変容量ダイオード

KV1270NT-G, KV1610STL-G, KV1613LTL-G

FEATURES

- Included Twin Element: KV1270NT-G, KV1610STL-G
- Included Cathode-common Triple Element: KV1613LTL-G
- Excellent Matching Between Elements
- Excellent Linearity of The CV Curve
- High Q: Q=200 to
- Extra Large Capacitance Ratio: Q=17.0 /18.5 to
- ツインタイプ素子1組搭載:KV1270NT-G, KV1610STL-G
- カソードコモン3素子搭載: KV1613LTL-G
- 優れた素子間マッチング
- CV特性の優れた直線性
- 高いQ値: Q=200~
- 極めて大きな容量変化比: A=17.0 / 18.5~

CLASSIFICATION

Rank		1	2
C ₁	MIN	446.0	475.0
	MAX	481.0	510.0

ABSOLUTE MAXIMUM RATINGS

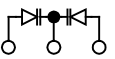
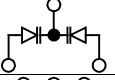
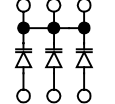
Parameter	項目	Symbol	記号	Rating	定格	Unit	単位	Remarks	備考
Reverse Voltage	逆方向電圧	V _R		16		V		KV1270NT-G	
				26				KV1613LTL-G	
Forward Current	順方向電流	I _F		50		mA		KV1610STL-G	
Power Dissipation	許容消費電力	P _D		100		mW			
Storage Temperature Range	保存温度範囲	T _{STG}		-55 to 150		°C			
Operating Temperature Range	動作温度範囲	T _{OP}		-55 to +85		°C			

ELECTRICAL CHARCTERISTICS

T_A=25°C

Parameter		Symbol	Value			Units	Conditions	
項目		記号	MIN	TYP	MAX	単位	条件	
Reverse Voltage	逆方向電圧	V _R	12			V	I _R =10μA	
Reverse Current	逆方向電流	I _R			100	nA	V _R =10V	
Diode Capacitance	容量値	C ₁	446.0		510.0	pF	V _R =1V, f=1MHz	
		C ₈	18.0		26.0	pF	KV1270NT-G	V _R =8V, f=1MHz
							KV1610STL-G	
			19.0		27.0		KV1613LTL-G	
Capacitance Tolerance	容量偏差	ΔC ₁			2.5	%	KV1270NT-G	V _R =1V, f=1MHz
					1.0		KV1610STL-G	
					3.0		KV1613LTL-G	
		ΔC ₄			3.0	%	KV1270NT-G	V _R =4V, f=1MHz
					2.0		KV1610STL-G	
					3.5		KV1613LTL-G	
		ΔC ₈			3.0	%	KV1270NT-G	V _R =8V, f=1MHz
					2.0		KV1610STL-G	
Q		Q	200				KV1613LTL-G	
Capacitance Ratio	容量変化比	A	17.0				KV1270NT-G	C ₁ /C ₈
			18.5				KV1610STL-G KV1613LTL-G	

* Diode Capacitance measured with Agilent 4279A or equivalent instruments (at OSC level 20±5mVrms)
 容量測定器は、Agilent 4279A又は相当品。OSCレベル 20±5mVrms。

PACKAGE OUTLINE				ORDERING INFORMATION
Part name	Package	Marking	Pin configuration	Ordering information
KV1270NT-G	 TO92-3	270●		KV1270NT-G
KV1610S-G	 SOT23-3	610●		KV1610STL-G...Storage direction: TL(Left type)
KV1613L-G	 SOT23L-6	613●		KV1613LTL-G...Storage direction: TL(Left type)

TYPICAL CHARCTERISTICS

