

Variable capacitance diode for AM tuning

AMチューナ用電圧可変容量ダイオード

KV1560, KV1560NT, KV1562M, KV1563M, KV1563BM

FEATURES

- Excellent Matching Between Elements
- Excellent Linearity of The CV Curve
- High Q: Q=200 to
- Extra Large Capacitance Ratio: A=17.0 to
- 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~

CLASSIFICATION

Rank		1	2	3	4
C	MIN	428	446	464	482
C ₁	MAX	452	470	488	506

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		20 16		V		KV1560, KV1560NT KV1562M, KV1563M, KV1563BM	
Forward Current	順方向電流	I _F		50		mA			
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 CHARACTERISTICS


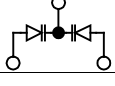

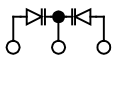

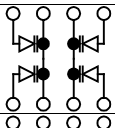

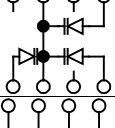

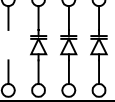
T_A=25°C

Parameter 項目		Symbol 記号	Value MIN TYP MAX			Units 単位	Conditions 条件
Reverse Voltage	逆方向電圧	V _R	16			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	428.0		506.0	pF	V _R =1V, f=1MHz
		C _{4.5}		100		pF	V _R =4.5V, f=1MHz
		C ₈	20.0		27.5	pF	V _R =8V, f=1MHz
Capacitance Tolerance	容量偏差	ΔC ₁			1.0	%	KV1560, KV1560NT
					1.2		KV1562M
					1.1		KV1563M
					2		KV1563BM
		ΔC _{4.5}			2.0	%	KV1560, KV1560NT
					2.2		KV1562M
					2.1		KV1563M
					3		KV1563BM
		ΔC ₈			2.0	%	KV1560, KV1560NT
					2.2		KV1562M
					2.1		KV1563M
					3		KV1563BM
Q		Q	200				V _R =1V, f=1MHz
Capacitance Ratio	容量変化比	A	17.0				C ₁ /C ₈

* 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。

*1 (C_{MAX}-C_{MIN})/C_{MIN}×100

PACKAGE OUTLINE				ORDERING INFORMATION
Part name	Package	Marking	Pin configuration	Ordering information
KV1560	 SOT23L-3	A6		KV1560NT
KV1560NT	 TO92-3	560		KV1560TL...Storage direction: TL(Left type)
KV1562M	 SOP-8	562		KV1562MTL...Storage direction: TL(Left type)
KV1563M	 SOP-8	563		KV1563MTL...Storage direction: TL(Left type)
KV1563BM	 SOP-8	63B		KV1563BMTL...Storage direction: TL(Left type)

TYPICAL CHARCTERISTICS

