查询KV1720S供应商



KV1720S



VARIABLE CAPACITANCE DIODE

APPLICATIONS

- FM Radio
- Voltage Controlled Oscillator

FEATURES

- Excellent Linearity (CV Curve)
- Large Capacitance Ratio (A = 2.00 minimum) with Very Low Series Resistance
- Two Diodes in a Miniature Package (SOT23-3)
- Very Small Capacitance Deviation at Tape/Reel

DESCRIPTION

The KV1720S is specially made to be used as a tuning element in radio cassettes, stereos, car radios, and other consumer radios.

The KV1720S minimizes cross modulation, allowing good signal-to-noise ratio in the overall design.

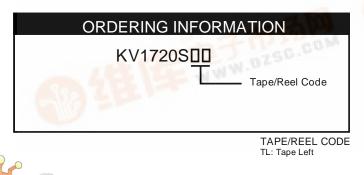
The KV1720S is available in the miniature SOT23-3 surface mount package.

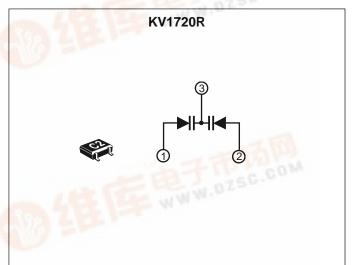
CLASSIFICATION

(Unit: pF)

c		1	2	3	4
C ₂	MIN	41.17	42.33	43.52	44.75
	MAX	42.76	43.96	45.20	46.48

Note: Rank is determined after testing and marked on the reel. All the diodes on a reel have the same rank, but rank can not be specified when ordering.





October 2000 TOKO, Inc.

KV1720S

ABSOLUTE MAXIMUM RATINGS

Reverse Voltage	18V
Forward Current	50 mA
Power Dissipation	100 mW

Storage Temperature Range	-55 to +150 °C
Operating Temperature Range	55 to +85 °C
Lead Soldering Temperature (10 s)	235 °C

ELECTRICAL CHARACTERISTICS

Test conditions: $T_A = 25 \text{ °C}$

SYMBOL	PARAMETER	TEST CONDITIONS	MIN	TYP	MAX	UNITS
V _{REV}	Reverse Voltage	Ι _{REV} = 10 μΑ	12			V
I _{REV}	Reverse Current	V _{REV} = 10 V			10	nA
C ₂	Diode Capacitance 2	$V_{REV} = 2.0 V, f = 1 MHz$	41.17		46.48	pF
C ₈	Diode Capacitance 8	V _{REV} = 8.0 V, f = 1 MHz	16.00		21.34	pF
R _s	Series Resistance	V _{REV} = 1.0 V, f = 100 MHz			0.3	Ω
А	Capacitance Ratio	C ₂ / C ₈	2.00		2.60	

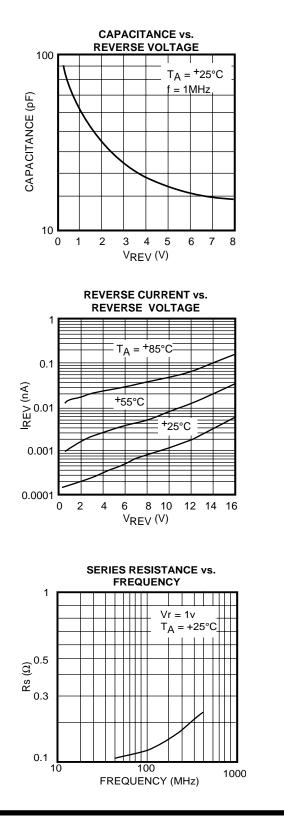
Note 1: Diode Capacitance measured with HP 4279A or equivalent instruments (at OSC level 20 mVrms, ± 5 mVrms).

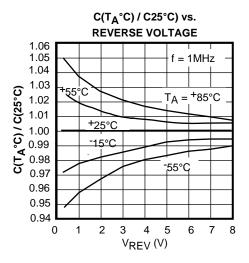
Note 2: Series Resistance measured with HP 4291B or equivalent instruments.

Note 3: The tolerance of two adjacent parts on a reel is within 3% at C2, C5, and C8.

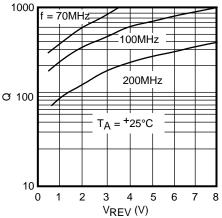
Note 4: The value of capacitance is the average of 2 back to back type diodes.

TYPICAL PERFORMANCE CHARACTERISTICS

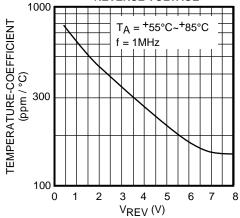




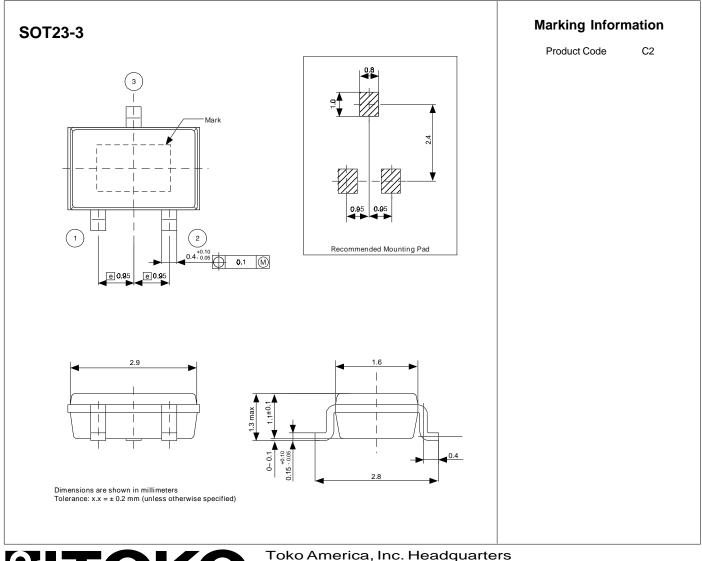
Q vs. REVERSE VOLTAGE



TEMPERATURE-COEFFICIENT vs. REVERSE VOLTAGE



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