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TOKO

KV1435

VARIABLE CAPACITANCE DIODE

FEATURES

- Suitable for World Wide Band (76 to 108 MHz)
- Excellent Linearity (CV Curve)
- Large Capacitance Ratio (A = 3.30 minimum) with Very Low Series Resistance
- Two Diodes in a Miniature Package (SOT-23-3)
- Very Small Capacitance Deviation at Tape/Reel
- Very High Q

APPLICATIONS

- FM Radio
- Voltage Controlled Oscillator

DESCRIPTION

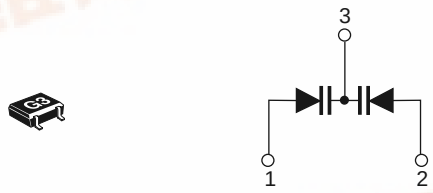
The KV1435 is a 9 volt range variable capacitance diode designed for FM tuner applications. It contains two elements housed in the miniature SOT23-3 surface mount package.

CLASSIFICATION

(Unit: pF)

C \ RANK		1	2	3	4
C_2	MIN	68.86	70.81	72.80	74.85
	MAX	71.52	73.53	75.61	77.74

KV1435



ORDERING INFORMATION

KV1435 □□

Tape/Reel Code

TAPE/REEL CODE
TL: Tape Left

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ABSOLUTE MAXIMUM RATINGS

Reverse Voltage ..... 18 V
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

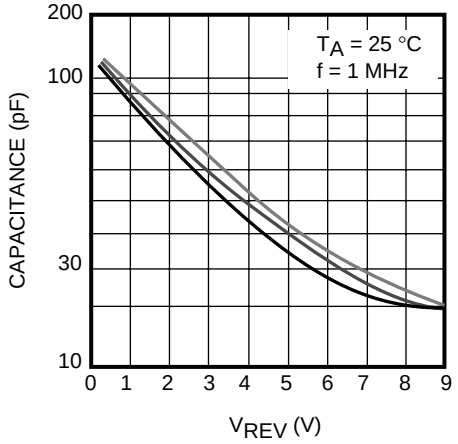
Test conditions: T_A = 25 °C

SYMBOL	PARAMETER	TEST CONDITIONS	MIN	TYP	MAX	UNITS
V_{REV}	Reverse Voltage	I_{REV} = 10 µA	16			V
I_{REV}	Reverse Current	V_{REV} = 10.0 V			50	nA
C_2	Diode Capacitance 2	V_{REV} = 2.0 V, f = 1 MHz	68.86		77.74	pF
C_4	Diode Capacitance 4	V_{REV} = 4.0 V, f = 1 MHz	42.93		56.46	pF
C_6	Diode Capacitance 6	V_{REV} = 6.0 V, f = 1 MHz	26.39		36.69	pF
C_9	Diode Capacitance 9	V_{REV} = 9.0 V, f = 1 MHz	16.91		22.25	pF
R_S	Series Resistance	V_{REV} = 2.0 V, f = 70 MHz			0.4	Ω
A	Capacitance Ratio	C_2 / C_9	3.30		4.60	

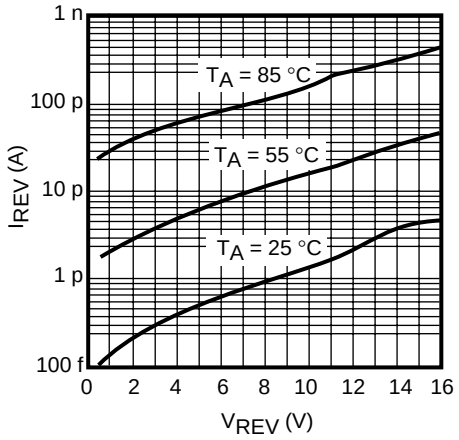
Note 1: Diode Capacitance measured with HP 4279A or equivalent instruments (at OSC level 20 mVrms, ± 5 mVrms).
Note 2: Series Resistance measured with HP 4191A or equivalent instruments.
Note 3: The tolerance of two adjacent parts in a reel is within 3% at C2, C4, C6, and C9.

TYPICAL PERFORMANCE CHARACTERISTICS

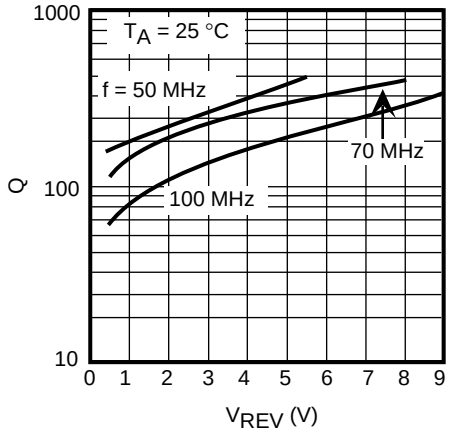
CAPACITANCE vs. REVERSE VOLTAGE



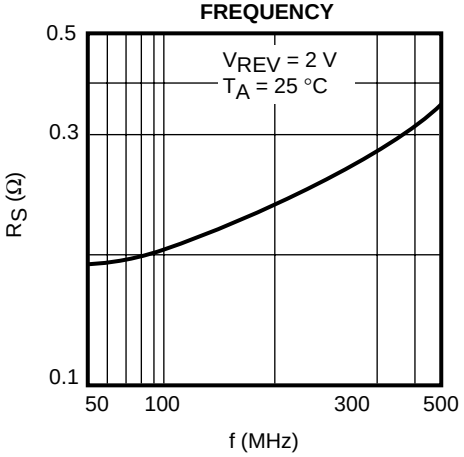
REVERSE CURRENT vs. REVERSE VOLTAGE



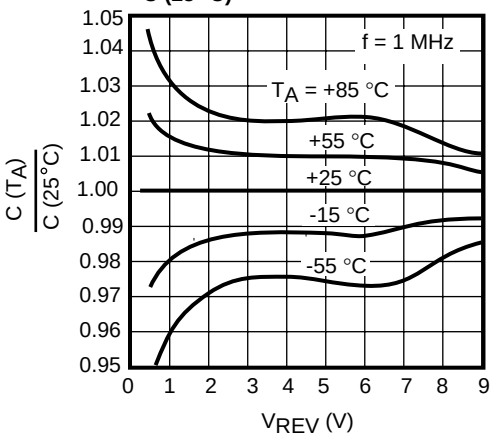
QUALITY FACTOR vs. REVERSE VOLTAGE



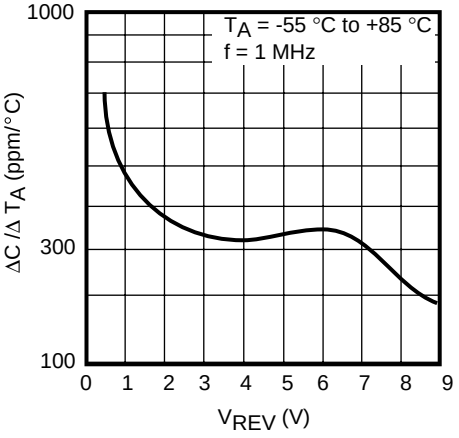
SERIES RESISTANCE vs. FREQUENCY



$\frac{C\ (T_A)}{C\ (25\ °C)}$ vs. REVERSE VOLTAGE

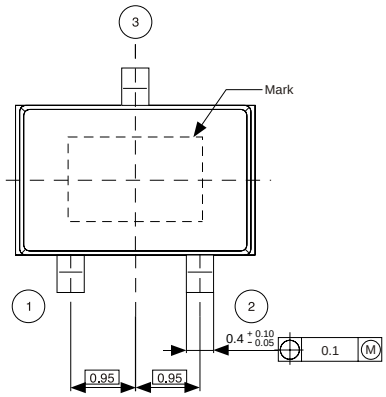


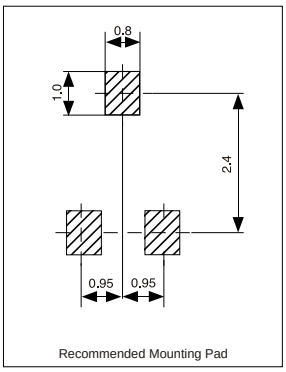
TEMPERATURE COEFFICIENT vs. REVERSE VOLTAGE

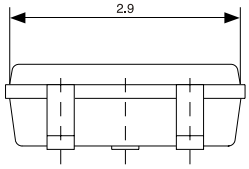


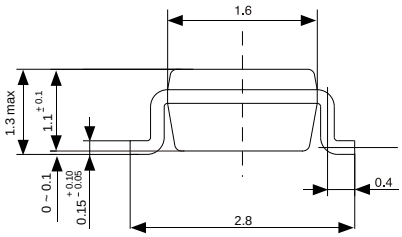
PACKAGE OUTLINE

SOT23-3









Dimensions are shown in millimeters
Tolerance: x.x = ± 0.2 mm (unless otherwise specified)

Marking Information

Product Code G3

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