MMVL535T1

Advance Information

Voltage Variable Capacitance Diode for UHF Band Radio

This device is designed for UHF tuning and general frequency control and tuning. This device is supplied in the SOD-323 plastic surface mount package for high volume, pick and place assembly requirements, and is a member of the Motorola microExecutive series.

- High Figure of Merit Q
- Guaranteed Capacitance Range
- Controlled and Uniform Tuning Ratio
- 0805 Footprint Compatible SOD-323 package
- Available in tape and reel



ON Semiconductor®

http://onsemi.com

15 VOLT VOLTAGE VARIABLE CAPACITANCE DIODE

1 O 2 Cathode Anode



Rating	Symbol	Value	Unit
Forward Current	IF	20	mAdc
Reverse Voltage	V _R	15	Vdc
Junction Temperature	Т _Ј	125	Э°
Storage Temperature Range	T _{stg}	-55 to +125	°C

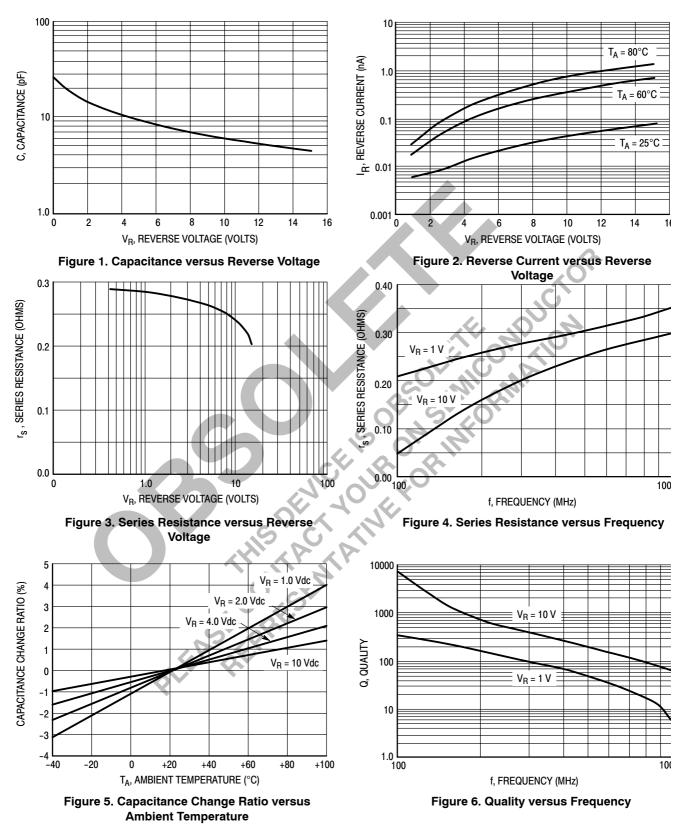
MAXIMUM RATINGS (T_A = 25°C unless otherwise noted)

ELECTRICAL CHARACTERISTICS ($T_A = 25^{\circ}C$ unless otherwise noted)

Characteristic	Symbol	Min	Тур	Max	Unit
Reverse Voltage (I _R = 1.0 μAdc)	V _R	15	—	—	Vdc
Reverse Current (V _R = 15 Vdc)	I _R			8.0	nAdc
Capacitance (V _R = 1 V, f = 1.0 MHz)	C _{1V}	17.5	18.7	20	pF
Capacitance (V _R = 4 V, f = 1.0 MHz)	C _{4V}	9.0	10.5	12.0	pF
Capacitance (V _R = 10 V, f = 1.0 MHz)	C _{10V}	5.4	6.0	6.6	pF
Capacitance Ratio	C _{1V/10V}	2.6	3.1	3.7	
Series Resistance (V _R = 5.0 V, f = 470 MHz)	r _s	—	0.27	0.5	Ω

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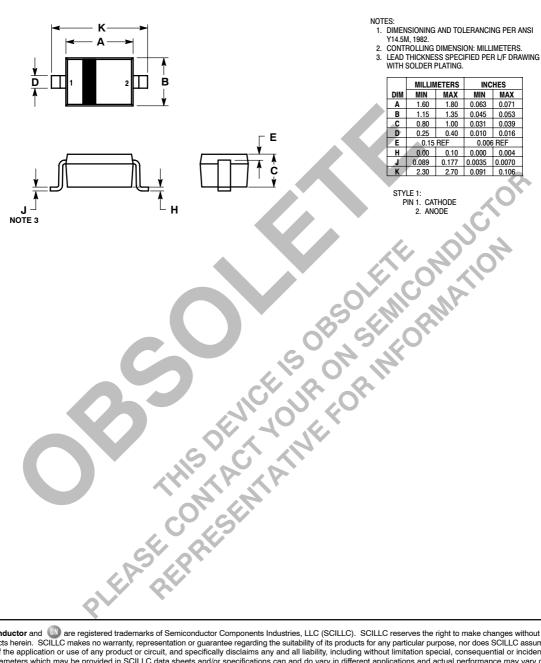
TYPICAL DEVICE CHARACTERISTICS



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PACKAGE DIMENSIONS

CASE 477-02 SOD-323 ISSUE A



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