

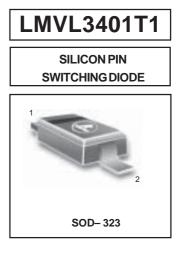
# **Silicon Pin Diode**

This device is designed primarily for VHF band switching applications but is also suitable for use in general–purpose switching circuits. Supplied in a Surface Mount package.

- Rugged PIN Structure Coupled with Wirebond Construction for Optimum Reliability
- Low Capacitance 0.7 pF Typ at  $V_R$  = 20 Vdc
- Very Low Series Resistance at 100 MHz 0.34 Ohms (Typ) @ I<sub>F</sub> = 10 mAdc
- Pb-Free package is available

## **DEVICE MARKING AND ORDERING INFORMATION**

Device	Marking	Package	Shipping
LMVL3401T1	4D	SOD-323	3000/Tape&Reel
LMVL3401T1G	4D	SOD-323 (Pb-Free)	3000/Tape&Reel





#### **MAXIMUM RATINGS**

Symbol	Rating	Value	Unit	
V <sub>R</sub>	Continuous Reverse Voltage	20	Vdc	
I <sub>F</sub>	Peak Forward Current	20	mAdc	

#### THERMALCHARACTERISTICS

Symbol	Characteristic	Max	Unit	
PD	Total Device Dissipation FR-5 Board,*	200	mW	
	$T_A = 25^{\circ}C$			
	Derate above 25°C	1.57	mW/°C	
R <sub>eja</sub>	Thermal Resistance Junction to Ambient	635	°C/W	
$T_{J},T_{stg}$	Junction and Storage Temperature	150	C°	

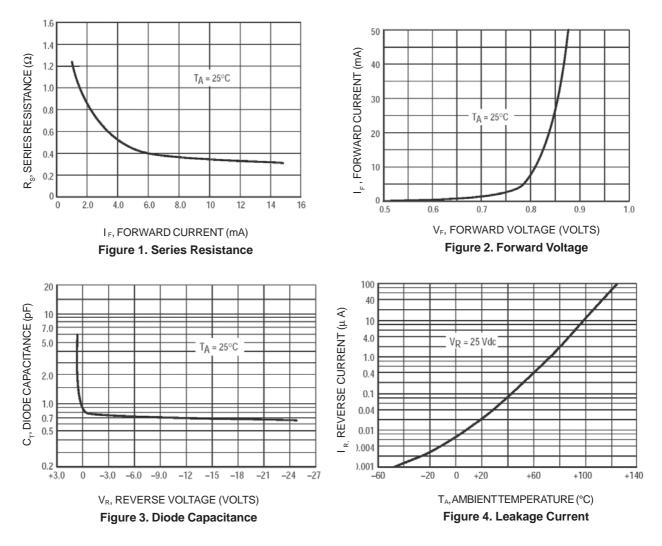
## \*FR-4 Minimum Pad

ELECTRICAL CHARACTERISTICS (T<sub>A</sub> = 25°C unless otherwise noted)

Characteristic	Symbol	Min	Тур	Max	Unit
Reverse BreakdownVoltage	V <sub>(BR)R</sub>	35	_	_	Vdc
(I <sub>R</sub> = 10 μAdc)					
Diode Capacitance	C <sub>T</sub>	_	_	1.0	pF
(V <sub>R</sub> = 20 Vdc)					
Series Resistance	R <sub>s</sub>	—	-	0.7	Ω
(I <sub>F</sub> = 10 mAdc, f =100MHz)					
Reverse Leakage Current	I <sub>R</sub>	_	_	0.1	μAdc
(V <sub>R</sub> = 25 Vdc)					



# LMVL3401T1

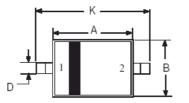


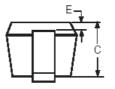
## **TYPICAL CHARACTERISTICS**



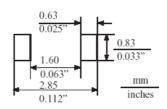
## LMVL3401T1

## SOD-323









NOTES: 1.CONTROLLING DIMENSION MILLIME TERS 2.LEAD THICKNESS SPECIFIEDPERL/FDRAWINGWITH SOLDERPLATING

DIN	MILLIMETERS		INCHES		
DIN	MIN	MAX	MIN	MAX	
Α	1.60	1.80	0.063	0.071	
В	1.15	1.35	0.045	0.053	
С	0.80	1.00	0.031	0.039	
D	0.25	0.40	0.010	0.016	
E	0.15 REF		0.006 REF		
Н	0.00	0.10	0.0000	0.004	
J	0.089	0.177	0.0035	0.0070	
K	2.30	2.7	0.091	0.106	