

## CTLSH01-30L

### 30V, 100mA Low $V_F$ Schottky Diode in the ultra miniature TLM2D3D6 package



Central Semiconductor's CTLSH01-30L is an energy efficient Schottky diode designed for applications where ultra small size, exceptional low forward voltage and low reverse leakage are essential requirements. Packaged in the TLM2D3D6 leadless case, this device is ideal for the most demanding space constrained applications.

#### Features:

- Forward current ( $I_O = 100\text{mA}$ )
- Low forward voltage drop ( $V_F = 300\text{mV @ } 10\text{mA}$ )
- Low leakage current ( $I_R = 0.8\mu\text{A @ } 3.3\text{V}$ )

#### Applications:

- DC-DC conversion
- Reverse polarity protection
- Flyback diode
- Battery power management

#### Benefits:

- Energy efficiency
- Space saving small footprint
- Extremely low profile package
- Ideal for logic level circuitry

#### Package Size and Comparison:

The TLM2D3D6 utilizes **67%** less board space than the SOD-882L



TLM2D3D6

SOD-882L

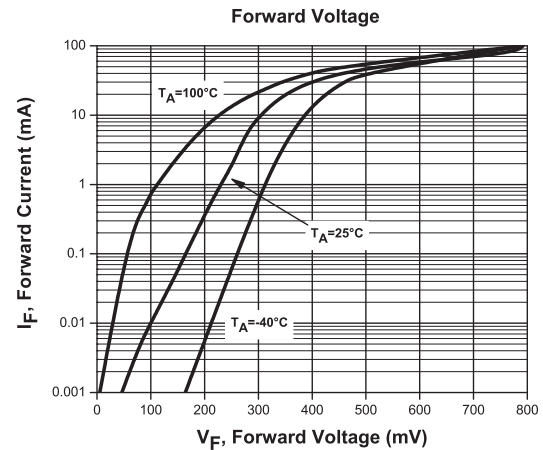
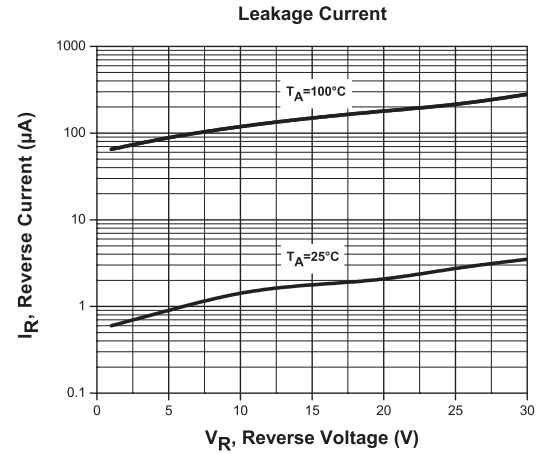
The TLM2D3D6 has a **20%** lower profile than the SOD-882L



TLM2D3D6

SOD-882L

#### Typical Electrical Characteristics



#### Samples



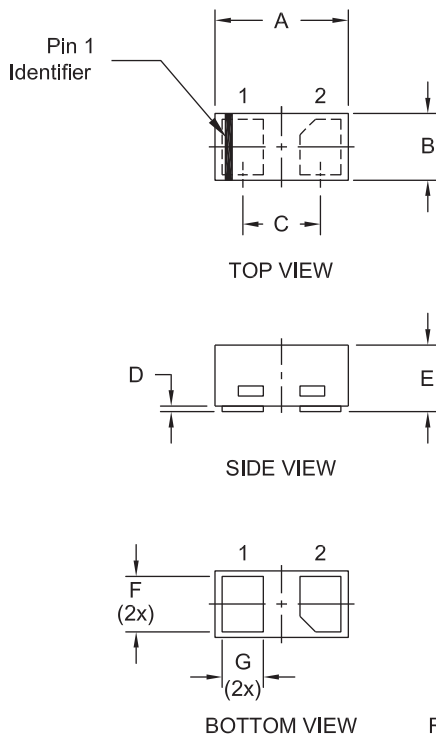
To order samples of this device visit:  
[www.centrasemi.com/info/CTLSH01-30L](http://www.centrasemi.com/info/CTLSH01-30L)

Electrical Characteristics ( $T_A = 25^\circ\text{C}$ unless otherwise noted)								Thermal Characteristics				
$V_{RRM}$	$I_O$	$V_F$		$@ I_F$	$I_R$		$@ V_R$	$C_T$	$P_D$	$T_J$	$T_{stg}$	$\Theta_{JA}$
(V) MAX	(mA) MAX	(mV) TYP	(mV) MAX		( $\mu\text{A}$ ) TYP	( $\mu\text{A}$ ) MAX	(V)	(pF) TYP	(mW) MAX	( $^\circ\text{C}$ ) MAX	( $^\circ\text{C}$ ) MAX	( $^\circ\text{C/W}$ ) MAX
30	100	70 300	95 370	5.0 $\mu\text{A}$ 10mA	0.8	2.0	3.3	7.0	100	-65 to +125	-65 to +150	1,000

# CTLSH01-30L

# 30V, 100mA Low $V_F$ Schottky Diode in the ultra miniature TLM2D3D6 package

## Mechanical Drawing - TLM2D3D6



SYMBOL	DIMENSIONS			
	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.022	0.026	0.55	0.65
B	0.010	0.014	0.25	0.35
C	0.014		0.35	
D	0.000	0.002	0.00	0.05
E	0.011	0.013	0.28	0.32
F	0.008	0.012	0.20	0.30
G	0.005	0.009	0.13	0.24

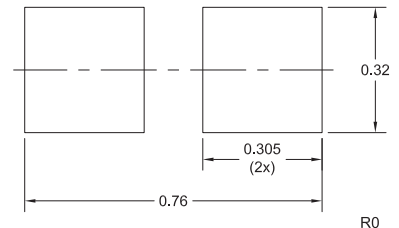
TLM2D3D6 (REV: R2)

### Lead Code:

- 1) Cathode
- 2) Anode

### Marking Code: D

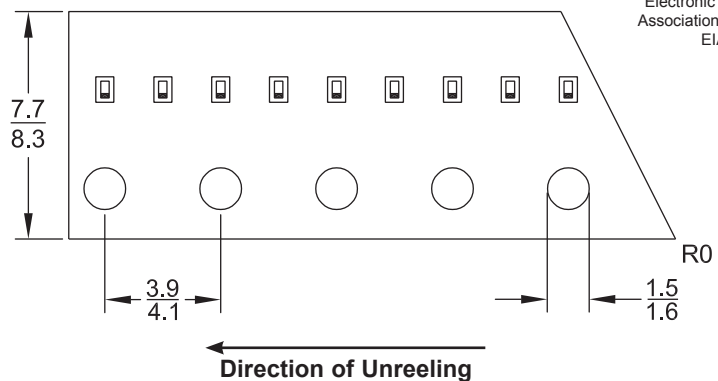
## Mounting Pad Geometry (Dimensions in mm)



## Tape Dimensions and Orientation

(Dimensions in mm)

Tape Width: 8mm

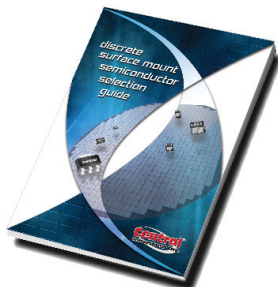


\* Devices are taped in accordance with Electronic Industries Association Standard EIA-481-1-A

## Packaging Base / Ordering Information

Reel Size	Quantity	Central Item No.
7"	8,000	CTLSH01-30L TR

## Literature



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## Reel Packing Information

Reel Size	Reels per Box (Maximum)	Parts per Box (Maximum)	Box Dimensions		Shipping Weight (Max.)	
			INCH	CM	LB	KG
7"	9	72,000	9x9x5	23x23x13	3	2
	18	144,000	9x9x9	23x23x23	6	3
	40	320,000	21x9x9	53x23x23	13	6
	108	864,000	27x9x17	69x23x43	34	16

Sample devices available upon request. To order samples of this device visit: [www.centrasemi.com/info/CTLSH01-30L](http://www.centrasemi.com/info/CTLSH01-30L)

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[www.centrasemi.com](http://www.centrasemi.com)