

CTLSH01-30 30V, 100mA Schottky Diode in the ultra miniature TLM2D3D6 package



The Central Semiconductor CTLSH01-30 is a high performing Schottky diode designed for applications where ultra small size, low forward voltage and low reverse leakage losses are optimal requirements. Packaged in a Tiny Leadless Module™ (TLM™) case, the CTLSH01-30 provides performance characteristics optimized for logic level applications where board space is at a premium.

Features:

- Forward current ($I_O = 100\text{mA}$)
- Low forward voltage drop ($V_F = 0.41\text{V} @ 10\text{mA}$)
- Low leakage current ($I_R = 30\text{nA} @ 10\text{V}$)

Applications:

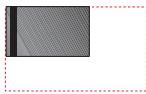
- DC-DC conversion
- Voltage clamping
- Circuit protection
- Battery power management

Benefits:

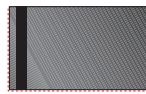
- Energy efficiency
- Space saving low profile package

Package Size and Comparison:

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



TLM2D3D6

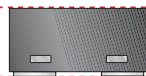


SOD-882L

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

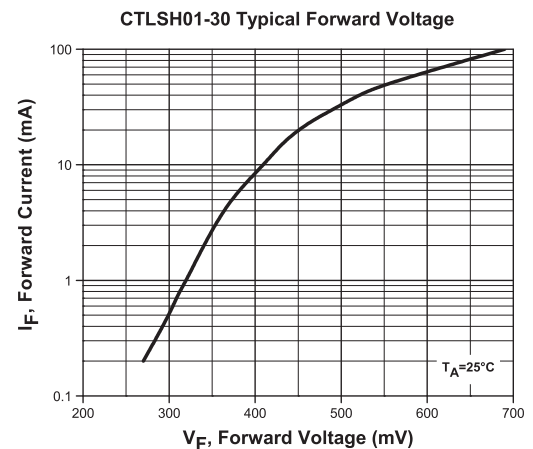
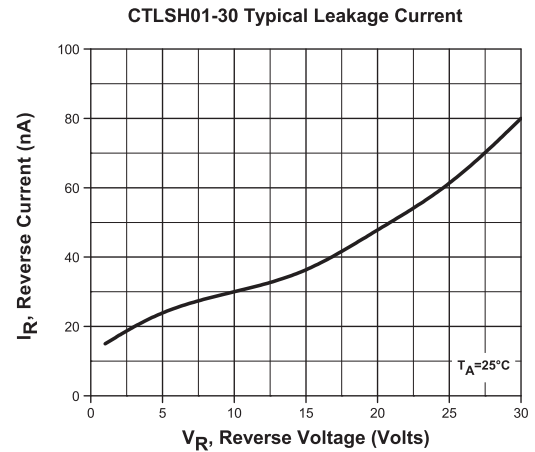


TLM2D3D6



SOD-882L

Typical Electrical Characteristics



Samples



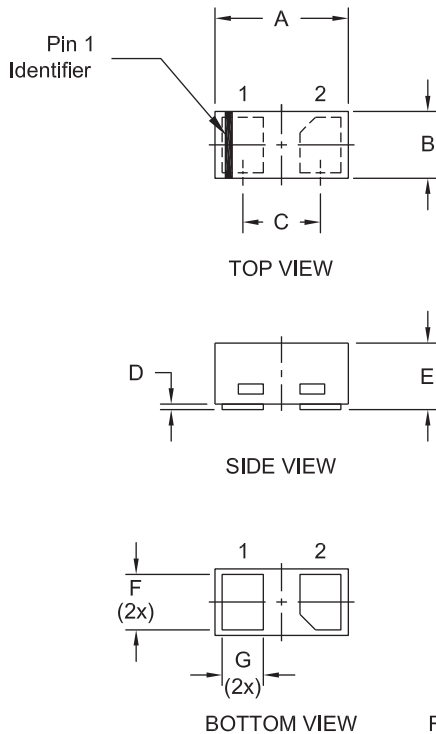
To order samples of this device visit:
www.centalsemi.com/info/CTLSH01-30

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}	Θ_{JA}
(V) MAX	(mA) MAX	(V) TYP	(V) MAX		(nA) TYP	(μA) MAX	(V)	(pF) TYP	(mW) MAX	($^\circ\text{C}$) MAX	($^\circ\text{C}$) MAX	($^\circ\text{C}/\text{W}$) MAX
30	100	0.41	0.46	10mA	30	300	10	7.0	100	-65 to +125	-65 to +150	1,000

CTLSH01-30

30V, 100mA 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

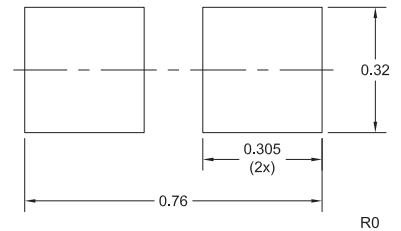
TLM2D3D6 (REV: R2)

Lead Code:

- 1) Cathode
- 2) Anode

Marking Code: C

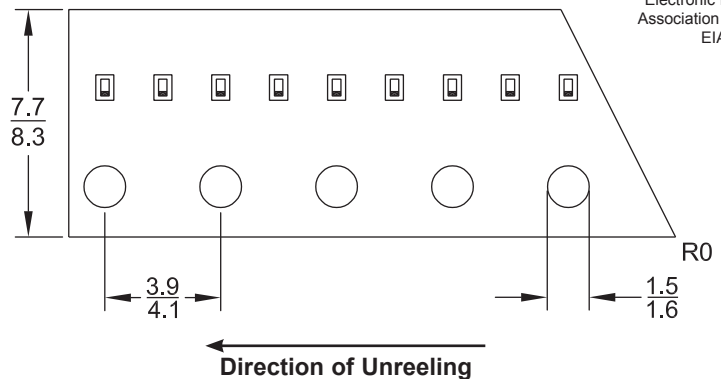
Mounting Pad Geometry (Dimensions in mm)



Tape Dimensions and Orientation

(Dimensions in mm)

Tape Width: 8mm

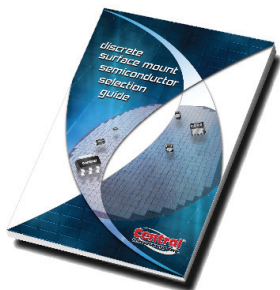


* Devices are taped in accordance with Electronic Industries Association Standard EIA-481-1-A

Packaging Base

7" Reel = 8,000 pcs.

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/CTLSH01-30



Innovative Discrete Semiconductors

For further information contact:
Sales at Central Semiconductor Corp.
(631) 435-1110 or visit:
www.centrasemi.com