

## Excellent Integrated System Limited

Stocking Distributor

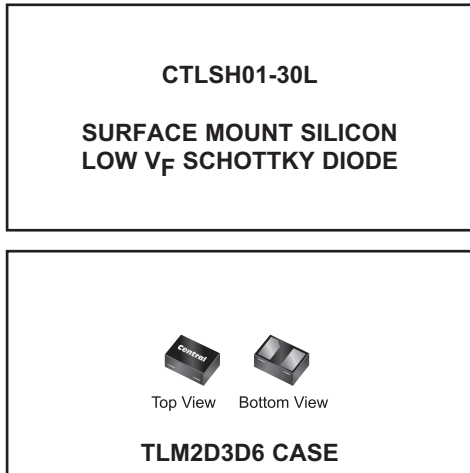
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[Central Semiconductor Corp](#)

[CTLSH01-30L TR](#)

For any questions, you can email us directly:

[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)



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

**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR CTLSH01-30L is a high quality Schottky diode designed for applications where ultra small size and low forward voltage are prime requirements. This component provides performance characteristics suitable for the most demanding size constrained applications.

**MARKING CODE: D**

**APPLICATIONS:**

- DC-DC Converters
- Voltage Clamping
- Protection Circuits
- Battery powered applications including Cell Phones, Digital Cameras, Pagers, PDAs, Laptop Computers, etc.

**FEATURES:**

- Current ( $I_O=100\text{mA}$ )
- Low Forward Voltage Drop ( $V_F=300\text{mV TYP @ } 10\text{mA}$ )
- Low Reverse Current ( $1.3\mu\text{A TYP @ } 10\text{V}$ )
- Ultra Small, Ultra Low Profile  $0.3\text{mm} \times 0.6\text{mm} \times 0.3\text{mm}$  Leadless Surface Mount package

**MAXIMUM RATINGS:** ( $T_A=25^\circ\text{C}$ )

Peak Repetitive Reverse Voltage	$V_{RRM}$	30	V
DC Blocking Voltage	$V_R$	30	V
Average Forward Current	$I_O$	100	mA
Peak Forward Surge Current, $t_p=8.3\text{ms}$	$I_{FSM}$	500	mA
Power Dissipation	$P_D$	100	mW
Operating Junction Temperature	$T_J$	-65 to +125	$^\circ\text{C}$
Storage Temperature	$T_{stg}$	-65 to +150	$^\circ\text{C}$
Thermal Resistance	$\theta_{JA}$	1000	$^\circ\text{C/W}$

**SYMBOL**

**UNITS**

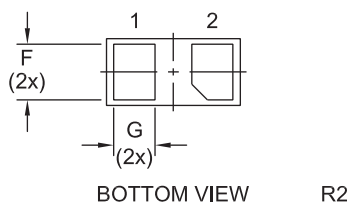
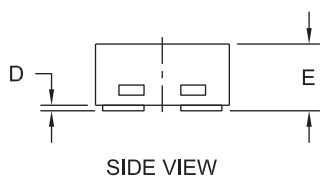
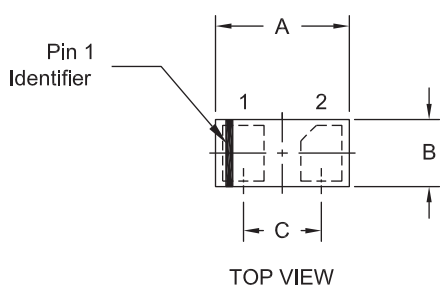
**ELECTRICAL CHARACTERISTICS:** ( $T_A=25^\circ\text{C}$  unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
$I_R$	$V_R=3.3\text{V}$		0.8	2.0	$\mu\text{A}$
$I_R$	$V_R=10\text{V}$		1.3	7.0	$\mu\text{A}$
$BV_R$	$I_R=100\mu\text{A}$	30			V
$V_F$	$I_F=5.0\mu\text{A}$		70	95	mV
$V_F$	$I_F=10\text{mA}$		300	370	mV
$C_J$	$V_R=0, f=1.0\text{MHz}$		4.0		pF

**CTLSH01-30L**  
  
**SURFACE MOUNT SILICON  
 LOW  $V_F$  SCHOTTKY DIODE**



**TLM2D3D6 CASE - MECHANICAL OUTLINE**



SYMBOL	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**

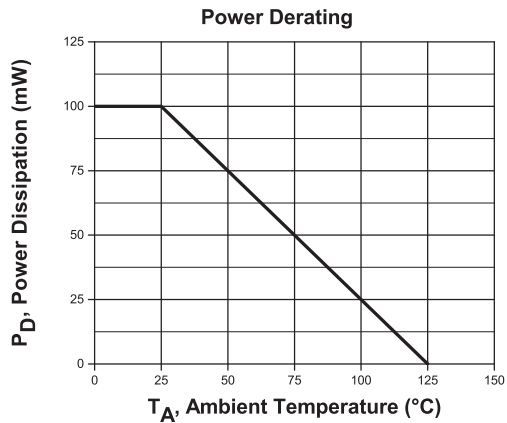
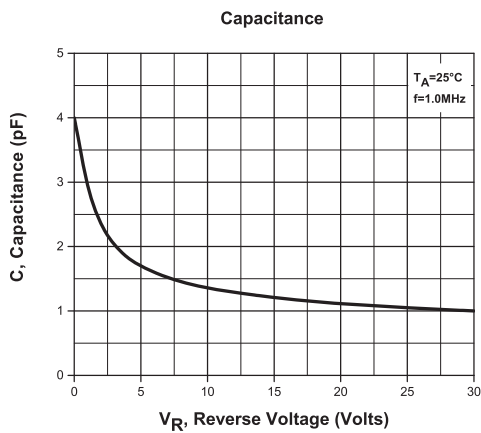
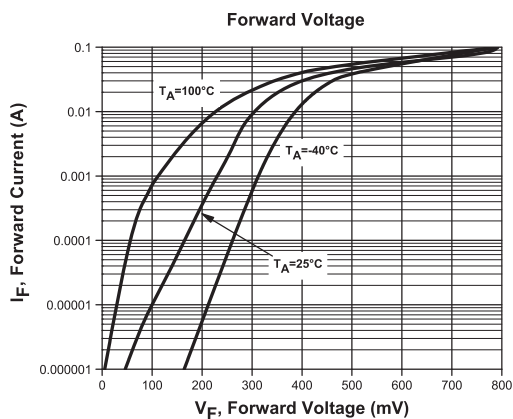
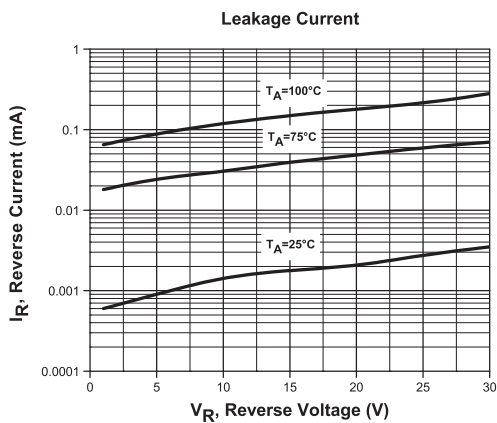
R3 (5-January 2015)

**CTLSH01-30L**

**SURFACE MOUNT SILICON  
LOW  $V_F$  SCHOTTKY DIODE**



**TYPICAL ELECTRICAL CHARACTERISTICS**



R3 (5-January 2015)

## OUTSTANDING SUPPORT AND SUPERIOR SERVICES



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### PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- Inventory bonding
- Consolidated shipping options
- Custom bar coding for shipments
- Custom product packing

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### DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free quick ship samples (2<sup>nd</sup> day air)
- Online technical data and parametric search
- SPICE models
- Custom electrical curves
- Environmental regulation compliance
- Customer specific screening
- Up-screening capabilities
- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- Application and design sample kits
- Custom product and package development

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### CONTACT US

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