

CTL SH01-30

**SURFACE MOUNT
SILICON SCHOTTKY DIODE**



www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CTLSH01-30 is a high quality Schottky Diode designed for applications where ultra small size and power dissipation are prime requirements. Packaged in a Ultra Tiny Leadless Package™, TLP™, this component provides performance characteristics suitable for the most demanding size constrained applications.

MARKING CODE: C



Top View Bottom View

TLM2D3D6 CASE

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 ($V_F=0.41\text{V TYP @ }10\text{mA}$)
 - Low Reverse Current ($30\text{nA TYP @ }10\text{V}$)
 - Ultra Small, Ultra Low Profile $0.3\text{mm} \times 0.6\text{mm} \times 0.3\text{mm}$

TLP™ Leadless Surface Mount package

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

Peak Repetitive Reverse Voltage

Average Forward Current

Peak Forward Surge Current, $t_p=8.3\text{ms}$

Power Dissipation

Operating Junction Temperature

Storage Temperature

Thermal Resistance

SYMBOL		UNITS
V_{RRM}	30	V
I_O	100	mA
I_{FSM}	500	mA
P_D	100	mW
T_J	-65 to +125	°C
T_{stg}	-65 to +150	°C
Θ_{JA}	1000	°C/W

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

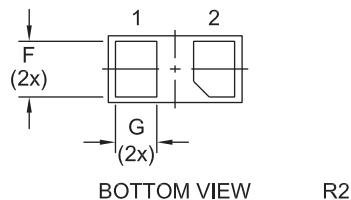
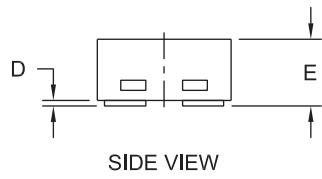
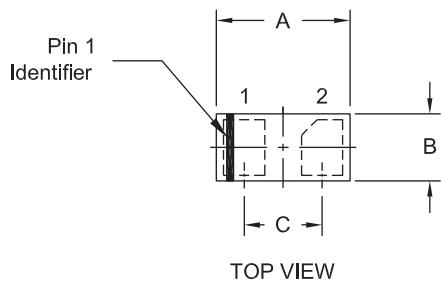
ELECTRICAL CHARACTERISTICS (TA = 25°C unless otherwise noted)					
SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
IR	VR=10V		30	300	nA
BVR	IR=100µA	30			V
VF	IF=10mA		0.41	0.46	V
CT	VR=0, f=1.0MHz		7.0		pF

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TLM2D3D6 CASE - MECHANICAL OUTLINE



SYMBOL	DIMENSIONS			
	INCHES	MILLIMETERS	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