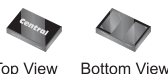


CTLSH01-30

**SURFACE MOUNT
SILICON SCHOTTKY DIODE**



Top View Bottom View

TLM2D3D6 CASE



www.centrasemi.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

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

V_{RRM}	30	V
I_O	100	mA
I_{FSM}	500	mA
P_D	100	mW
T_J	-65 to +125	$^\circ\text{C}$
T_{stg}	-65 to +150	$^\circ\text{C}$
θ_{JA}	1000	$^\circ\text{C/W}$

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

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I_R	$V_R=10\text{V}$		30	300	nA
BV_R	$I_R=100\mu\text{A}$	30			V
V_F	$I_F=10\text{mA}$		0.41	0.46	V
C_T	$V_R=0, f=1.0\text{MHz}$		7.0		pF

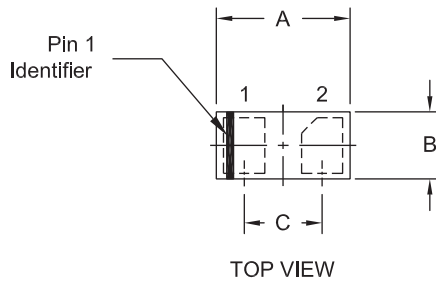
R3 (20-April 2011)

CTLSH01-30

SURFACE MOUNT
SILICON SCHOTTKY DIODE

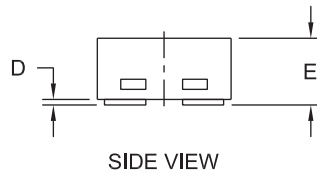


TLM2D3D6 CASE - MECHANICAL OUTLINE



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

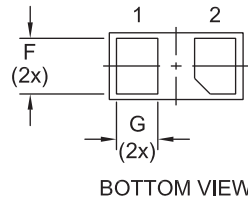
TLM2D3D6 (REV: R2)



LEAD CODE:

- 1) Cathode
- 2) Anode

MARKING CODE: C



R2

R3 (20-April 2011)

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