

CTL SH01-30L**SURFACE MOUNT SILICON
LOW V_F SCHOTTKY DIODE**www.centralsemi.com**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR CTL SH01-30L is a high quality Schottky Diode designed for applications where ultra small size and low forward voltage are prime requirements. Packaged in a Tiny Leadless Package™, TLP™, this component provides performance characteristics suitable for the most demanding size constrained applications.

**TLM2D3D6 CASE****APPLICATIONS:**

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

MAXIMUM RATINGS: (T_A=25°C)

Peak Repetitive Reverse Voltage

FEATURES:

- Current (I_O=100mA)
- Low Forward Voltage Drop (V_F=0.30V TYP @ 10mA)
- Low Reverse Current (1.3µA TYP @ 10V)
- Ultra Small, Ultra Low Profile 0.3mm x 0.6mm x 0.3mm TLP™ Leadless Surface Mount package

DC Blocking Voltage

SYMBOL		UNITS
V _{RRM}	30	V
V _R	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

Average Forward Current

Peak Forward Surge Current, tp=8.3ms

Power Dissipation

Operating Junction Temperature

Storage Temperature

Thermal Resistance

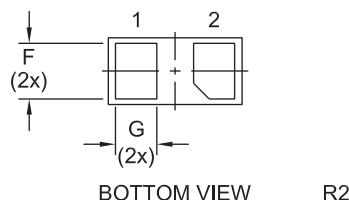
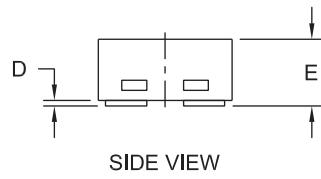
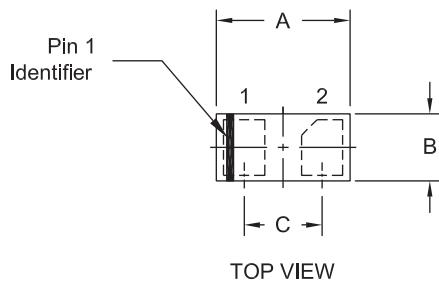
ELECTRICAL CHARACTERISTICS: (T_A=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I _R	V _R =3.3V		0.8	2.0	µA
I _R	V _R =10V		1.3	7.0	µA
BV _R	I _R =100µA	30			V
V _F	I _F =5.0µA		70	95	mV
V _F	I _F =10mA		300	370	mV
C _T	V _R =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: D