

CTLZ3V9 THRU CTLZ8V2

SURFACE MOUNT SILICON  
ZENER DIODES



www.centrasemi.com



TLM2D3D6 CASE

**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR CTLZ3V9 thru CTLZ8V2 silicon Zener diodes are high quality voltage regulators, each packaged in the ultra small, ultra low profile TLM2D3D6 leadless surface mount case.

**MARKING CODE: SEE MARKING CODES ON ELECTRICAL CHARACTERISTICS TABLE**

**APPLICATIONS:**

- Reference voltage
- Voltage regulation
- Over-voltage protection
- Medical electronics
- Handheld devices such as mobile phones and MP3 players.

**FEATURES:**

- Ultra small, ultra low profile 0.3mm x 0.6mm x 0.3mm TLP™ leadless surface mount package.

**MAXIMUM RATINGS:** (T<sub>A</sub>=25°C)

Power Dissipation  
Operating and Storage Junction Temperature

**SYMBOL**

P<sub>D</sub>  
T<sub>J</sub>, T<sub>stg</sub>

**UNITS**

mW  
°C

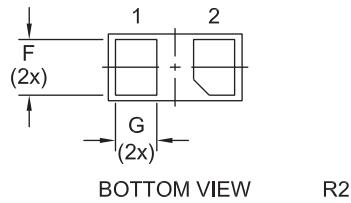
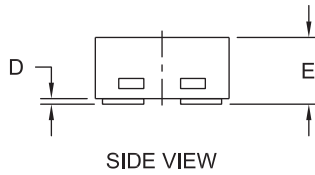
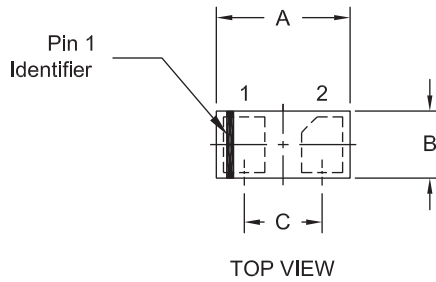
**ELECTRICAL CHARACTERISTICS:** (T<sub>A</sub>=25°C) V<sub>F</sub>=0.9V MAX @ I<sub>F</sub>=10mA (for all types)

TYPE	ZENER VOLTAGE			TEST CURRENT	MAXIMUM REVERSE LEAKAGE CURRENT		MARKING CODE
	V <sub>Z</sub> @ I <sub>ZT</sub>				I <sub>ZT</sub>	I <sub>R</sub>	
	MIN V	NOM V	MAX V	mA		μA	
CTLZ3V9	3.74	3.9	4.16	5.0	5.0	1.0	F
CTLZ4V7	4.42	4.7	4.90	5.0	2.0	1.0	H
CTLZ5V1	4.84	5.1	5.37	5.0	2.0	1.5	K
CTLZ5V6	5.31	5.6	5.92	5.0	1.0	2.5	L
CTLZ6V2	5.86	6.2	6.53	5.0	1.0	3.0	N
CTLZ6V8	6.47	6.8	7.14	5.0	0.5	3.5	P
CTLZ7V5	7.06	7.5	7.84	5.0	0.5	4.0	T
CTLZ8V2	7.76	8.2	8.64	5.0	0.5	5.0	U

**CTLZ3V9 THRU CTLZ8V2**  
**SURFACE MOUNT SILICON**  
**ZENER DIODES**



**TLM2D3D6 CASE - MECHANICAL OUTLINE**



DIMENSIONS				
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: SEE MARKING CODES ON ELECTRICAL CHARACTERISTICS TABLE**

R2

R0 (23-October 2012)