SURFACE MOUNT SILICON SCHOTTKY DIODE



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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 TLM2D3D6 package, this component provides performance characteristics suitable for the most demanding size constrained applications.

MARKING CODE: C



Top View Bottom V

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=100mA)
- Low forward voltage drop (V_F=0.41V TYP @ 10mA)
- Low reverse current (30nA TYP @ 10V)
- \bullet Ultra small, ultra low profile 0.3mm x 0.6mm x 0.3mm leadless surface mount package

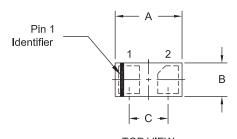
MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	30	V
Average Forward Current	IO	100	mA
Peak Forward Surge Current, tp=8.3ms	I _{FSM}	500	mA
Power Dissipation	P_{D}	100	mW
Operating Junction Temperature	TJ	-65 to +125	°C
Storage Temperature	T _{stg}	-65 to +150	°C
Thermal Resistance	Θιδ	1000	°C/W

ELECTRICAL CHARACTERISTICS: (T_A=25°C unless otherwise noted) SYMBOL **TEST CONDITIONS** TYP MAX **UNITS** V_R=10V 30 300 nΑ I_R BV_R I_R=100μA 30 V_{F} I_F=10mA 0.41 0.46 ٧ СЈ V_R=0, f=1.0MHz 7.0 pF

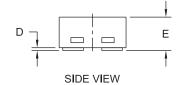
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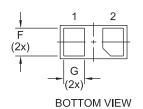


TLM2D3D6 CASE - MECHANICAL OUTLINE









DIMENSIONS					
	INCHES		MILLIMETERS		
SYMBOL	MIN	MAX	MIN	MAX	
Α	0.022	0.026	0.55	0.65	
В	0.010	0.014	0.25	0.35	
С	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	
TI MODODO (DEV. DO)					

TLM2D3D6 (REV: R2)

LEAD CODE:

- 1) Cathode
- 2) Anode

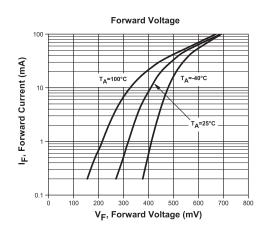
R2

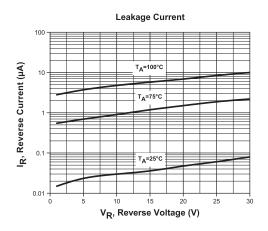
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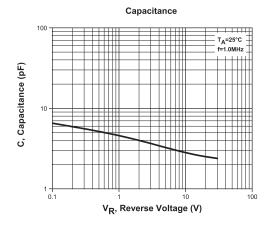




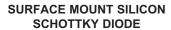
TYPICAL ELECTRICAL CHARACTERISTICS





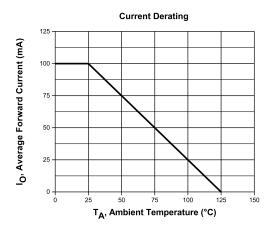


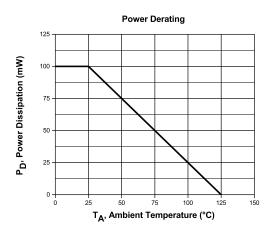
R4 (29-September 2015)





TYPICAL ELECTRICAL CHARACTERISTICS





OUTSTANDING SUPPORT AND SUPERIOR SERVICES



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

DESIGNER SUPPORT/SERVICES

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

- Free guick ship samples (2nd 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

REQUESTING PRODUCT PLATING

- 1. If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
- 2. If requesting Lead (Pb) Free plated devices, add the suffix "PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

CONTACT US

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