



APPLICATIONS:

- DC-DC converters
- Voltage clamping
- Protection circuits
- Battery powered applications including cell phones, digital cameras, pagers, PDAs, laptop computers, etc.

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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

FEATURES:

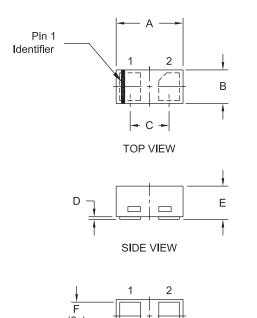
- Current (I_O=100mA)
- Low forward voltage drop (V_F=0.41V TYP @ 10mA)
- Low reverse current (30nA TYP @ 10V)
- Ultra small, ultra low profile 0.3mm x 0.6mm x 0.3mm leadless surface mount package

MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V _{RRM}	30	V
Average Forward Current	ΙO	100	mA
Peak Forward Surge Current, tp=8.3ms	IFSM	500	mA
Power Dissipation	PD	100	mW
Operating Junction Temperature	Тј	-65 to +125	°C
Storage Temperature	T _{stg}	-65 to +150	°C
Thermal Resistance	Θ _{JA}	1000	°C/W

ELECTRICAL CHARACTERISTICS: (T _A =25°C unless otherwise noted)							
SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS		
I _R	V _R =10V		30	300	nA		
BVR	Ι _R =100μΑ	30			V		
V _F	I _F =10mA		0.41	0.46	V		
СЈ	V _R =0, f=1.0MHz		7.0		pF		







G ¹(2x)[|]

BOTTOM VIEW

R2

TLM2D3D6 CASE - MECHANICAL OUTLINE

DIMENSIONS						
	INCHES		MILLIM	ETERS		
SYMBOL	MIN	MAX	MIN	MAX		
A	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		
TLM2D3D6 (REV: R2)						

TLM2D3D6 (REV: R2)

LEAD CODE:

1) Cathode

2) Anode

MARKING CODE: C

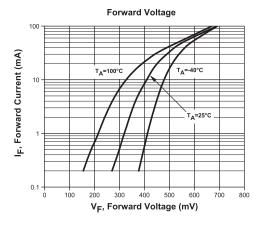


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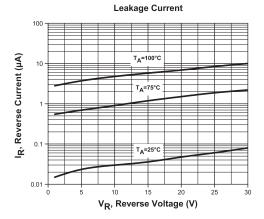
R4 (29-September 2015)



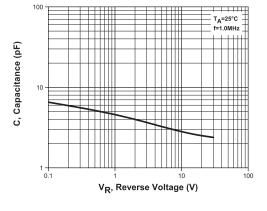




TYPICAL ELECTRICAL CHARACTERISTICS





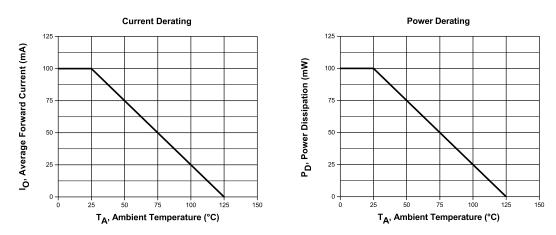


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TYPICAL ELECTRICAL CHARACTERISTICS

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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

DESIGNER SUPPORT/SERVICES

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

- Free quick 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

ss your design challenges.

· Custom product packing

- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- · Application and design sample kits

Custom bar coding for shipments

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).
- 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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