CTLSH01-30L

SURFACE MOUNT SILICON LOW V_F SCHOTTKY DIODE





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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CTLSH01-30L is a high quality Schottky diode designed for applications where ultra small size and low forward voltage are prime requirements. This component provides performance characteristics suitable for the most demanding size constrained applications.

MARKING CODE: D





on 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=300mV TYP @ 10mA)
- Low Reverse Current (1.3µA 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
DC Blocking Voltage	v_R	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	T_J	-65 to +125	°C
Storage Temperature	T _{stg}	-65 to +150	°C
Thermal Resistance	Θ_{L}	1000	°C/W

$\textbf{ELECTRICAL CHARACTERISTICS:} \ (T_{\mbox{A}} = 25^{\circ}\mbox{C unless otherwise noted})$

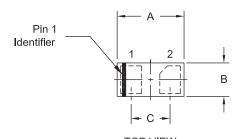
SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I_{R}	V _R =3.3V		0.8	2.0	μΑ
I_{R}	V _R =10V		1.3	7.0	μΑ
BV_R	I _R =100μA	30			V
V_{F}	I _F =5.0μA		70	95	mV
V_{F}	I _F =10mA		300	370	mV
CJ	V _R =0, f=1.0MHz		4.0		pF

CTLSH01-30L

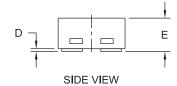
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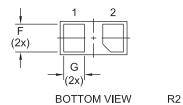


TLM2D3D6 CASE - MECHANICAL OUTLINE









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			

TLM2D3D6 (REV: R2)

LEAD CODE:

- 1) Cathode
- 2) Anode

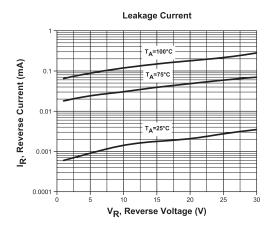
MARKING CODE: D

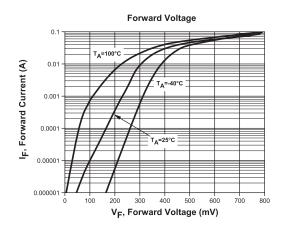
CTLSH01-30L

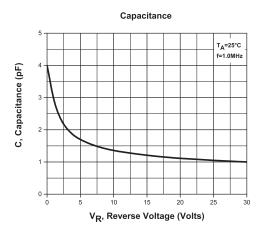
SURFACE MOUNT SILICON LOW VF SCHOTTKY DIODE

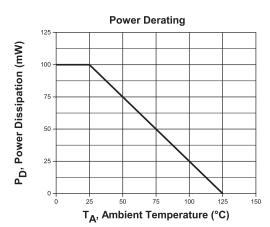


TYPICAL ELECTRICAL CHARACTERISTICS









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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