

CTLSH15-30M364

SURFACE MOUNT SILICON  
LOW  $V_F$   
SCHOTTKY RECTIFIER



[www.centralsemi.com](http://www.centralsemi.com)

**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR CTLH15-30M364 is a high performance 15 Amp silicon Schottky rectifier designed for applications requiring high power capability and a low profile package.

**MARKING CODE: CTSH1530**



**APPLICATIONS:**

- DC-DC converters
- Reverse polarity protection
- By-pass diode

**MAXIMUM RATINGS: ( $T_A=25^\circ C$ )**

Peak Repetitive Reverse Voltage

DC Blocking Voltage

RMS Reverse Voltage

Average Forward Current ( $T_L=120^\circ C$ )

Peak Forward Surge Current,  $t_p=8.3ms$

Operating and Storage Junction Temperature

Thermal Resistance

Thermal Resistance

**FEATURES:**

- Low forward voltage,  $V_F=0.51V$  TYP @ 15A
- Low profile 1.2mm MAX package height

SYMBOL		UNITS
$V_{RRM}$	30	V
$V_R$	30	V
$V_R$ (RMS)	21	V
$I_O$	15	A
$I_{FSM}$	275	A
$T_J, T_{stg}$	-55 to +150	$^\circ C$
$\Theta_{JA}$	110	$^\circ C/W$
$\Theta_{JL}$	4.5	$^\circ C/W$

**ELECTRICAL CHARACTERISTICS: ( $T_A=25^\circ C$  unless otherwise noted)**

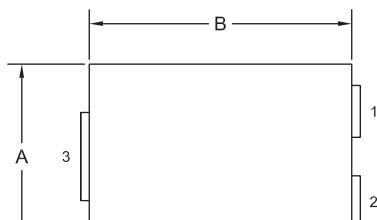
SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
$I_R$	$V_R=30V$		25	100	$\mu A$
$I_R$	$V_R=30V, T_A=125^\circ C$		20	50	mA
$BV_R$	$I_R=0.5mA$	30			V
$V_F$	$I_F=15A$		0.51	0.56	V
$C_J$	$V_R=4.0V, f=1.0MHz$		920		pF

CTLSH15-30M364

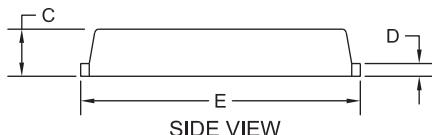
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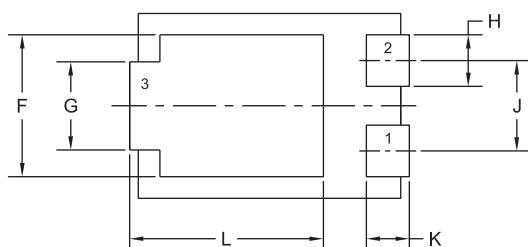
TLM364 CASE - MECHANICAL OUTLINE



TOP VIEW



SIDE VIEW

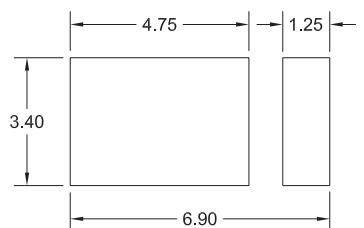


BOTTOM VIEW

SYMBOL	DIMENSIONS		MILLIMETERS		
	INCHES	MIN	MAX	MIN	MAX
A	0.167	0.172	4.25	4.35	
B	0.238	0.243	6.05	6.15	
C	0.039	0.048	1.00	1.20	
D	0.009	0.014	0.25	0.35	
E	0.250	0.262	6.35	6.65	
F	0.128	0.136	3.25	3.45	
G	0.076	0.085	1.95	2.15	
H	0.044	0.052	1.10	1.30	
J		0.083		2.10	
K		0.035	0.044	0.90	1.10
L		0.171	0.183	4.35	4.65

TLM364 (REV:R0)

SUGGESTED MOUNTING PADS  
(Dimensions in mm)



R0

LEAD CODE:

- 1) Anode
- 2) Anode
- 3) Cathode

MARKING CODE: CTSH1530

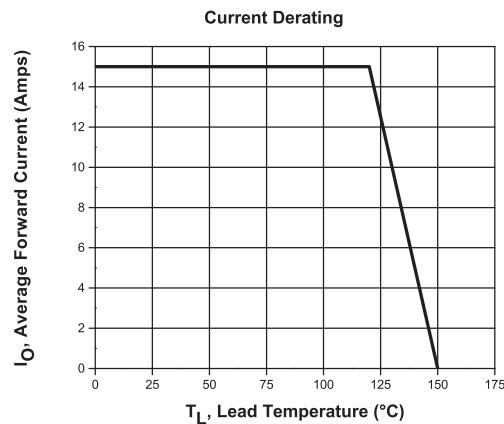
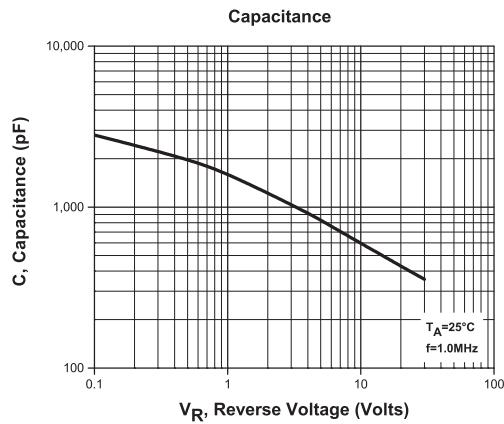
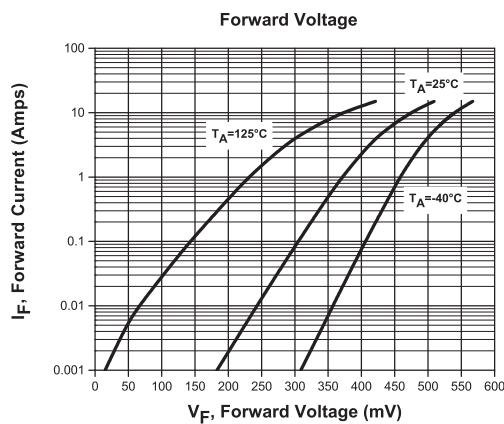
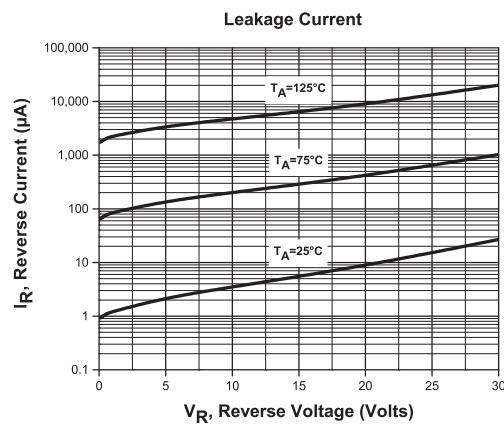
R1 (25-March 2013)

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### TYPICAL ELECTRICAL CHARACTERISTICS



R1 (25-March 2013)

## OUTSTANDING SUPPORT AND SUPERIOR SERVICES



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### 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

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### DESIGNER SUPPORT/SERVICES

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

- Free quick ship samples (2<sup>nd</sup> 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

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### 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).

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### CONTACT US

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