

**CTLSH15-60M364**

**SURFACE MOUNT SILICON  
LOW V<sub>F</sub>  
SCHOTTKY RECTIFIER**



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

**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR CTLH15-60M364 is a high performance 15 Amp silicon Schottky rectifier designed for applications requiring high power capability and a low profile package.

**MARKING CODE: CTSH1560**



**APPLICATIONS:**

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

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

Peak Repetitive Reverse Voltage

DC Blocking Voltage

RMS Reverse Voltage

Average Forward Current (T<sub>L</sub>=110°C)

Peak Forward Surge Current, t<sub>p</sub>=8.3ms

Operating and Storage Junction Temperature

Thermal Resistance

Thermal Resistance

**FEATURES:**

- Low forward voltage, V<sub>F</sub>=0.54V TYP @ 15A
- Low profile 1.2mm MAX package height

SYMBOL		UNITS
V <sub>RRM</sub>	60	V
V <sub>R</sub>	60	V
V <sub>R(RMS)</sub>	42	V
I <sub>O</sub>	15	A
I <sub>FSM</sub>	250	A
T <sub>J</sub> , T <sub>stg</sub>	-55 to +150	°C
Θ <sub>JA</sub>	110	°C/W
Θ <sub>JL</sub>	6.0	°C/W

**ELECTRICAL CHARACTERISTICS: (T<sub>A</sub>=25°C unless otherwise noted)**

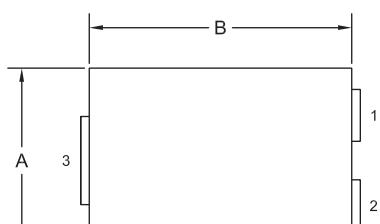
SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I <sub>R</sub>	V <sub>R</sub> =60V		60	200	µA
I <sub>R</sub>	V <sub>R</sub> =60V, T <sub>A</sub> =125°C		15	50	mA
BV <sub>R</sub>	I <sub>R</sub> =0.5mA	60			V
V <sub>F</sub>	I <sub>F</sub> =15A		0.54	0.59	V
C <sub>J</sub>	V <sub>R</sub> =4.0V, f=1.0MHz		550		pF

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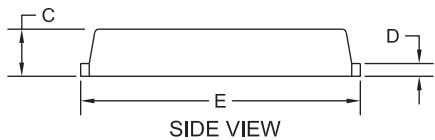
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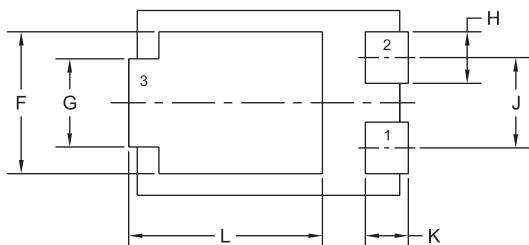
TLM364 CASE - MECHANICAL OUTLINE



TOP VIEW



SIDE VIEW

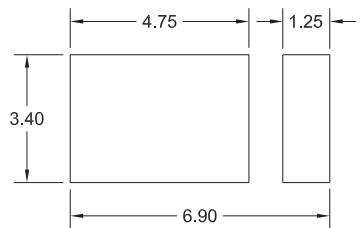


BOTTOM VIEW

SYMBOL	DIMENSIONS			
	INCHES	MILLIMETERS	MIN	MAX
A	0.167	4.25	0.172	4.35
B	0.238	6.05	0.243	6.15
C	0.039	1.00	0.048	1.20
D	0.009	0.25	0.014	0.35
E	0.250	6.35	0.262	6.65
F	0.128	3.25	0.136	3.45
G	0.076	2.15	0.085	2.21
H	0.044	1.30	0.052	1.40
J	0.083	2.10		
K	0.035	0.90	0.044	1.10
L	0.171	4.35	0.183	4.65

TLM364 (REV:R0)

SUGGESTED MOUNTING PADS  
(Dimensions in mm)



R0

LEAD CODE:

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

MARKING CODE: CTSH1560

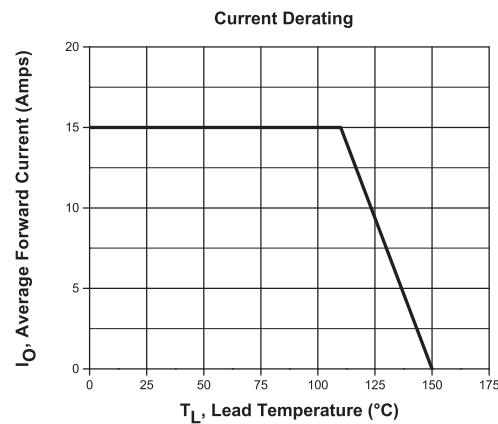
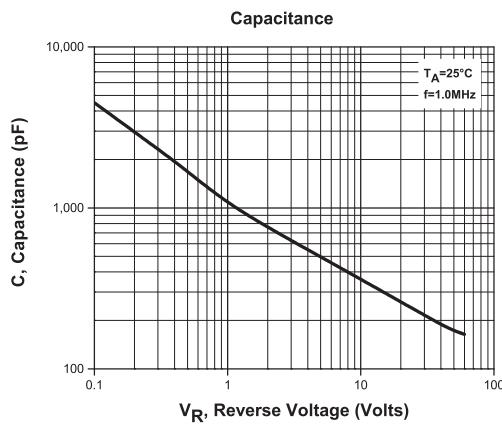
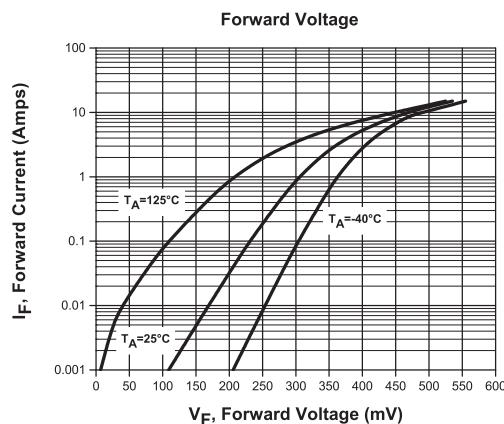
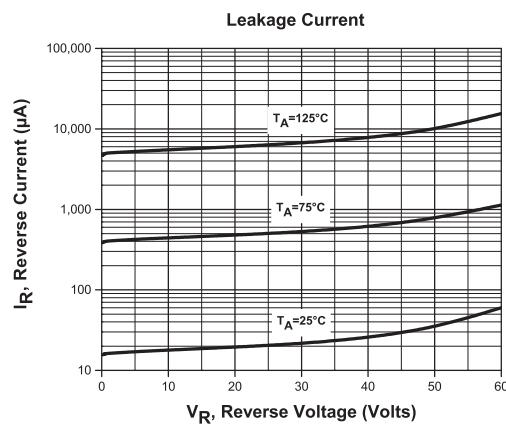
R1 (22-August 2013)

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**TYPICAL ELECTRICAL CHARACTERISTICS**



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