

**CTL SH5-100M364**

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



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

**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR CTL SH5-100M364 is a high performance 5.0 Amp silicon Schottky rectifier designed for applications requiring high power capability and a low profile package.

**MARKING CODE: CTL SH510**



**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>=125°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>=0.73V TYP @ 5.0A
- Low reverse leakage current, I<sub>R</sub>=2.5µA TYP @ 100V
- Low profile 1.2mm MAX package height

SYMBOL		UNITS
V <sub>RRM</sub>	100	V
V <sub>R</sub>	100	V
V <sub>R(RMS)</sub>	70	V
I <sub>O</sub>	5.0	A
I <sub>FSM</sub>	150	A
T <sub>J</sub> , T <sub>stg</sub>	-55 to +150	°C
Θ <sub>JA</sub>	80	°C/W
Θ <sub>JL</sub>	15	°C/W

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

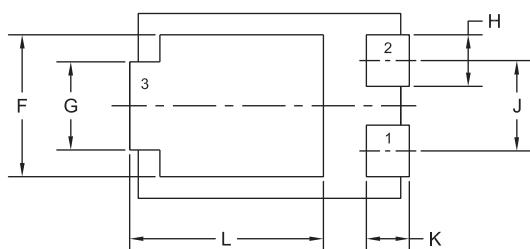
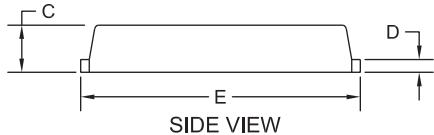
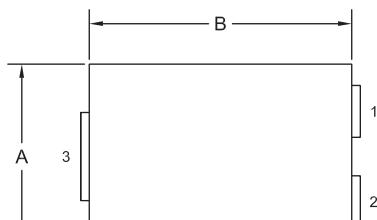
SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I <sub>R</sub>	V <sub>R</sub> =100V		2.5	15	µA
BV <sub>R</sub>	I <sub>R</sub> =1.0mA	100	112		V
V <sub>F</sub>	I <sub>F</sub> =5.0A		0.73	0.8	V
C <sub>J</sub>	V <sub>R</sub> =0, f=1.0MHz		475		pF

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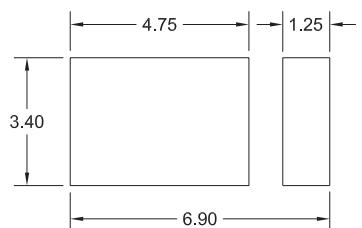
TLM364 CASE - MECHANICAL OUTLINE



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

TLM364 (REV:R0)

SUGGESTED MOUNTING PADS  
(Dimensions in mm)



R0

LEAD CODE:

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

MARKING CODE: CTLSH510

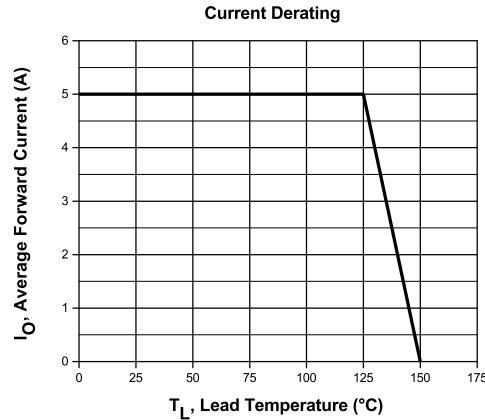
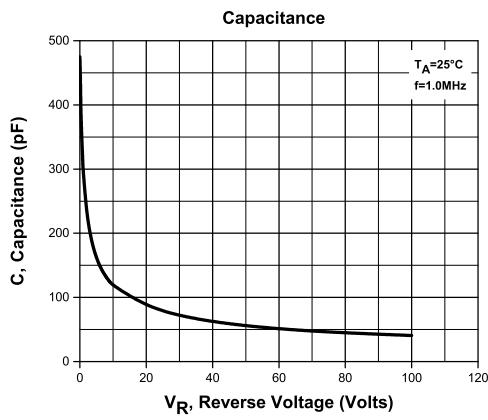
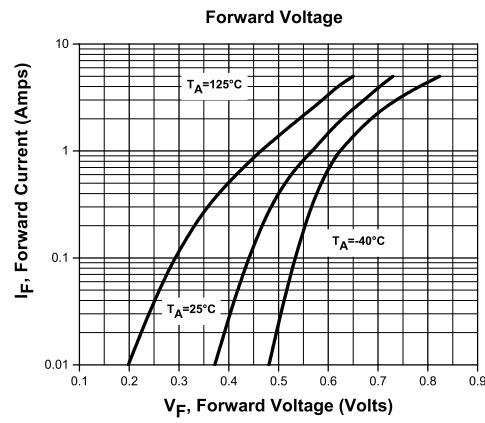
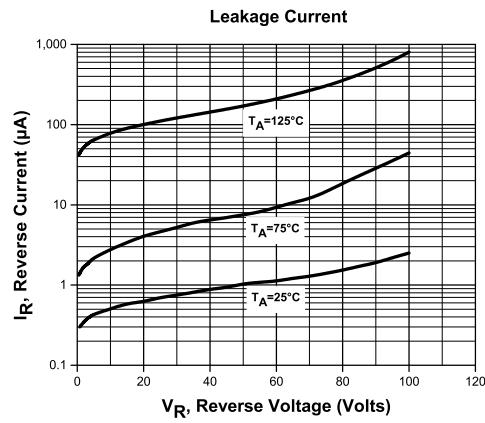
R4 (7-April 2016)

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### TYPICAL ELECTRICAL CHARACTERISTICS



R4 (7-April 2016)

## 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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