

CTLSH5-100M364

**SURFACE MOUNT SILICON
LOW V_F
SCHOTTKY RECTIFIER**



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CTLSH5-100M364 is a high performance 5.0 Amp silicon Schottky rectifier designed for applications requiring high power capability and a low profile package.

MARKING CODE: CTLSH510

APPLICATIONS:

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

FEATURES:

- Low forward voltage, $V_F=0.73V$ TYP @ 5.0A
- Low reverse leakage current, $I_R=2.5\mu A$ TYP @ 100V
- Low profile 1.2mm MAX package height

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

Peak Repetitive Reverse Voltage
DC Blocking Voltage
RMS Reverse Voltage
Average Forward Current ($T_L=125^\circ C$)
Peak Forward Surge Current, $t_p=8.3ms$
Operating and Storage Junction Temperature
Thermal Resistance
Thermal Resistance

SYMBOL

V_{RRM}	100
V_R	100
$V_{R(RMS)}$	70
I_O	5.0
I_{FSM}	150
T_J, T_{stg}	-55 to +150
θ_{JA}	80
θ_{JL}	15

UNITS

V
V
V
A
A
$^\circ C$
$^\circ C/W$
$^\circ C/W$

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

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I_R	$V_R=100V$		2.5	15	μA
BV_R	$I_R=1.0mA$	100	112		V
V_F	$I_F=5.0A$		0.73	0.8	V
C_J	$V_R=0, f=1.0MHz$		475		pF

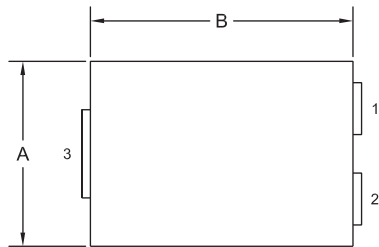
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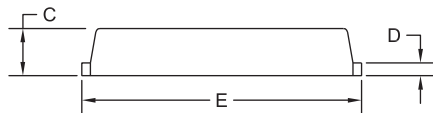
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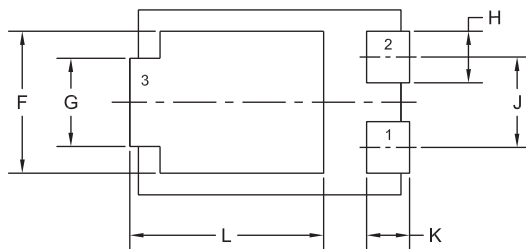
TLM364 CASE - MECHANICAL OUTLINE



TOP VIEW



SIDE VIEW



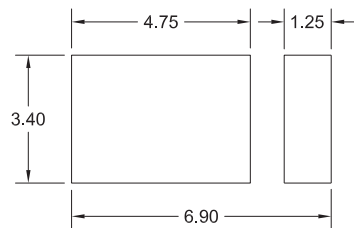
BOTTOM VIEW

R0

DIMENSIONS				
SYMBOL	INCHES		MILLIMETERS	
	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: CTLSH510

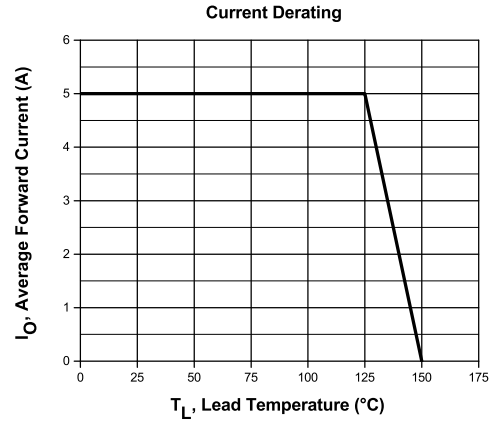
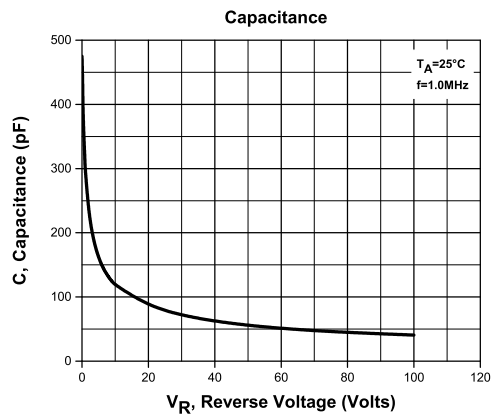
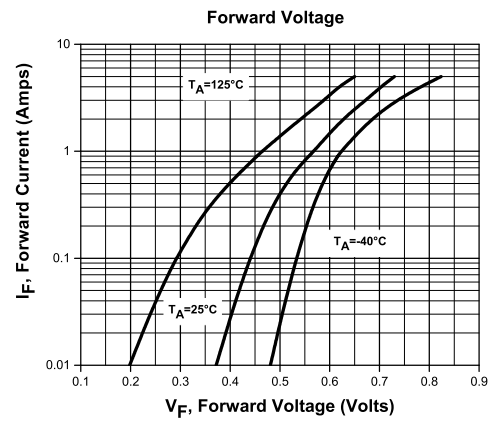
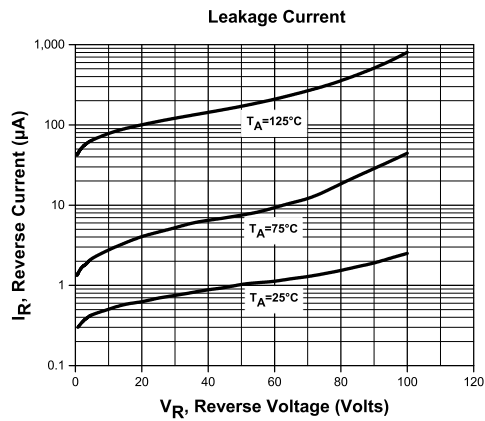
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TYPICAL ELECTRICAL CHARACTERISTICS



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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

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
- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- Application and design sample kits
- Custom product and package development

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