#### CTLSH4-200M364

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





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## **DESCRIPTION:**

The CENTRAL SEMICONDUCTOR CTLSH4-200M364 is a high performance 4.0 Amp silicon Schottky rectifier designed for applications requiring high voltage capability and high levels of efficiency in a low profile package.

**MARKING CODE: CTLSH420** 

## **APPLICATIONS:**

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

## **FEATURES:**

- · Low forward voltage
- Low reverse leakage current
- Low profile package

MAXIMUM RATINGS: (TA=25°C)	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	$V_{RRM}$	200	V
DC Blocking Voltage	$V_{R}$	200	V
RMS Reverse Voltage	V <sub>R(RMS)</sub>	140	V
Average Forward Current (T <sub>L</sub> =125°C)	Ìο	4.0	Α
Peak Forward Surge Current, tp=8.3ms	I <sub>FSM</sub>	100	Α
Operating and Storage Junction Temperature	T <sub>J</sub> , T <sub>stg</sub>	-55 to +150	°C
Thermal Resistance (Note 1)	$\Theta_{JA}$	80	°C/W
Thermal Resistance	Θπ	15	°C/W

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

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
$I_{R}$	V <sub>R</sub> =200V		0.15	1.0	μΑ
$I_{R}$	V <sub>R</sub> =200V, T <sub>A</sub> =125°C		0.35	10	mA
$BV_R$	I <sub>R</sub> =500μA	200			V
$V_{F}$	I <sub>F</sub> =4.0A		0.76	0.84	V
CJ	V <sub>R</sub> =4.0V, f=1.0MHz		140		pF

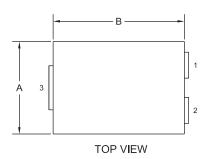
Notes: (1) FR-4 epoxy PCB with minimum copper pad area.

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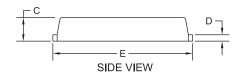


# **TLM364 CASE - MECHANICAL OUTLINE**

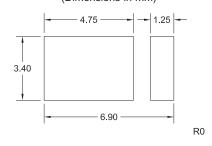


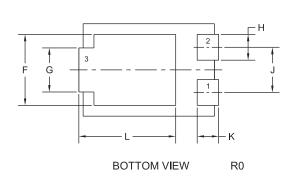
DIMENSIONS						
	INCHES		MILLIMETERS			
SYMBOL	MIN	MAX	MIN	MAX		
Α	0.167	0.172	4.25	4.35		
В	0.238	0.243	6.05	6.15		
С	0.039	0.048	1.00	1.20		
D	0.009	0.014	0.25	0.35		
E	0.250	0.262	6.35	6.65		
F	0.128	0.136	3.25	3.45		
G	0.076	0.085	1.95	2.15		
Н	0.044	0.052	1.10	1.30		
J	0.083		2.10			
K	0.035	0.044	0.90	1.10		
L	0.171	0.183	4.35	4.65		
TLM364 (REV:R0)						

TLM364 (REV:R0)



# SUGGESTED MOUNTING PADS (Dimensions in mm)





# LEAD CODE:

- 1) Anode 2) Anode
- 3) Cathode

**MARKING CODE: CTLSH420** 

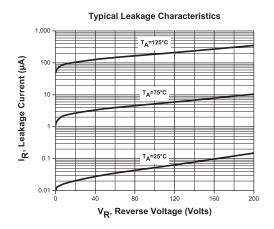
R1 (4-January 2013)

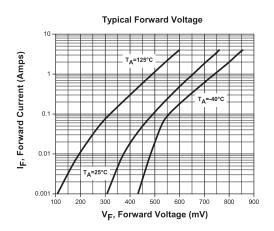
## CTLSH4-200M364

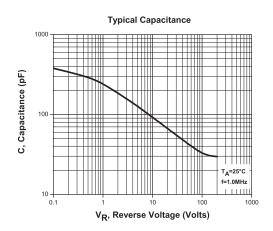


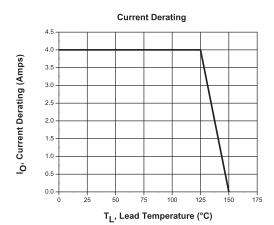


## TYPICAL ELECTRICAL CHARACTERISTICS









## **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**

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- 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

#### **CONTACT US**

#### Corporate Headquarters & Customer Support Team

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