imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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SURFACE MOUNT SILICON LOW V_F SCHOTTKY RECTIFIER



APPLICATIONS:

• Power management

DC-DC output rectificationReverse polarity protection



www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CTLSH10-100L is a high performance 10 Amp silicon Schottky rectifier designed for applications requiring high current, energy efficiency and a low profile package.

MARKING CODE: CSH10100

FEATURES:

- Low forward voltage, V_F=645mV TYP @ 10A
- Low reverse leakage current, IR=15µA TYP @ 100V
- Low profile 1.2mm MAX package height

MAXIMUM RATINGS: (T _A =25°C) Peak Repetitive Reverse Voltage	SYMBOL V _{RRM}	100	UNITS V
DC Blocking Voltage	VR	100	V
RMS Reverse Voltage	V _{R(RMS)}	70	V
Average Forward Current (TL=90°C)	ι _Ο	10	А
Peak Forward Surge Current, tp=8.3ms	IFSM	300	А
Operating and Storage Junction Temperature	T _J , T _{stg}	-55 to +150	°C
Thermal Resistance (Note 1)	Θ_{JL}	10	°C/W
Thermal Resistance (Note 1)	Θ_{JA}	23	°C/W

ELECTRICAL CHARACTERISTICS: (T _A =25°C unless otherwise noted)									
SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS				
^I R	V _R =100V		15	150	μA				
IR	V _R =100V, T _A =125°C		15		mA				
BVR	I _R =0.5mA	100			V				
V _F	I _F =5.0A		530		mV				
VF	I _F =5.0A, T _A =125°C		450		mV				
V _F	I _F =10A		645	680	mV				
VF	I _F =10A, T _A =125°C		540		mV				
CJ	V _R =4.0V, f=1.0MHz		610		pF				

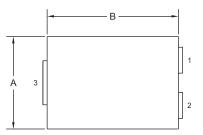
Notes: (1) FR-4 epoxy PCB with 25cm² copper pad area.

R1 (4-April 2013)



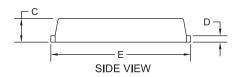


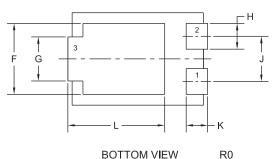
SURFACE MOUNT SILICON LOW V_F SCHOTTKY RECTIFIER



TLM364 CASE - MECHANICAL OUTLINE

TOP VIEW





BOTTOM VIEW

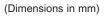
LEAD CODE:

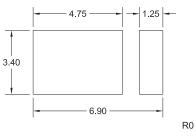
- 1) Anode 2) Anode
- 3) Cathode

MARKING CODE: CSH10100

DIMENSIONS						
	INCHES		MILLIMETERS			
SYMBOL	MIN	MAX	MIN	MAX		
А	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		
Ĺ	0.171	0.183	4.35	4.65		
TLM364 (REV:R0)						

SUGGESTED MOUNTING PADS





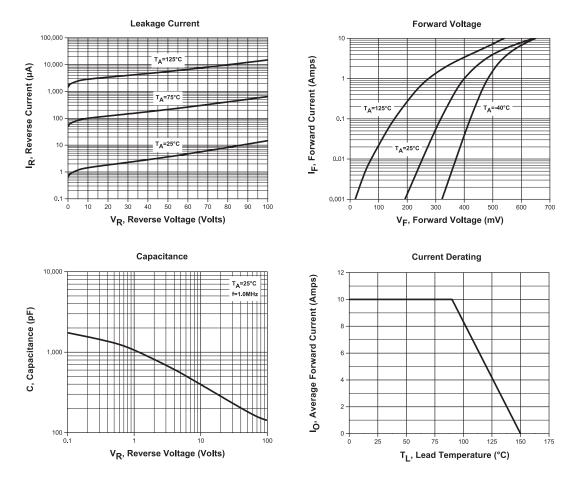
R1 (4-April 2013)

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CTLSH10-100L

SURFACE MOUNT SILICON LOW VF SCHOTTKY RECTIFIER



TYPICAL ELECTRICAL CHARACTERISTICS

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R1 (4-April 2013)

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

DESIGNER SUPPORT/SERVICES

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

- Free guick 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

· Custom product packing

Custom bar coding for shipments

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

REQUESTING PRODUCT PLATING

- If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when 1. 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).

CONTACT US

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