CTLSH4-200M364

SURFACE MOUNT SILICON LOW V_F 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 _{R(RMS)}	140	V
Average Forward Current (T _L =125°C)	Ìο	4.0	Α
Peak Forward Surge Current, tp=8.3ms	I _{FSM}	100	Α
Operating and Storage Junction Temperature	T _J , T _{stg}	-55 to +150	°C
Thermal Resistance (Note 1)	Θ_{JA}	80	°C/W
Thermal Resistance	Θπ	15	°C/W

ELECTRICAL CHARACTERISTICS: (T_A=25°C unless otherwise noted)

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

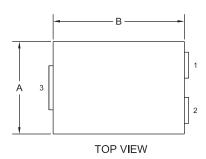
Notes: (1) FR-4 epoxy PCB with minimum copper pad area.

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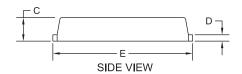


TLM364 CASE - MECHANICAL OUTLINE

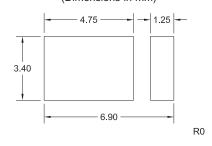


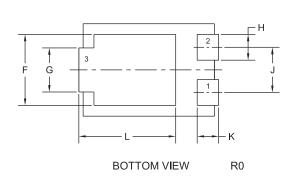
DIMENSIONS						
	INCHES		MILLIMETERS			
SYMBOL	MIN	MAX	MIN	MAX		
Α	0.167	0.172	4.25	4.35		
В	0.238	0.243	6.05	6.15		
С	0.039	0.048	1.00	1.20		
D	0.009	0.014	0.25	0.35		
E	0.250	0.262	6.35	6.65		
F	0.128	0.136	3.25	3.45		
G	0.076	0.085	1.95	2.15		
Н	0.044	0.052	1.10	1.30		
J	0.083		2.10			
K	0.035	0.044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

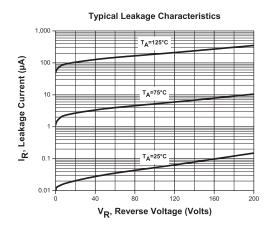
R1 (4-January 2013)

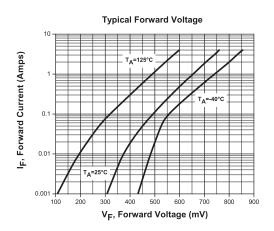
CTLSH4-200M364

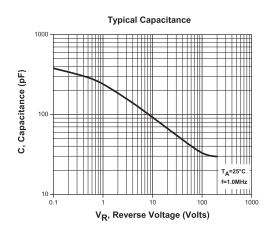


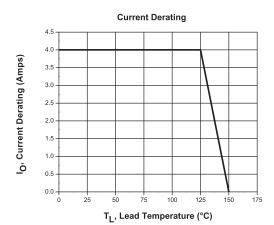


TYPICAL ELECTRICAL CHARACTERISTICS









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

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

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

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).

CONTACT US

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