CTLR5-06

SURFACE MOUNT SILICON RECTIFIER 5.0 AMP, 600 VOLT





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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CTLR5-06 is a high voltage rectifier packaged in the low profile TLM364 case. The CTLR5-06 offers high current density in a package that is ideal for space constrained industrial, consumer, medical and power supply applications.

MARKING: FULL PART NUMBER

APPLICATIONS:

- Input rectification
- Reverse polarity protection
- Voltage clamping
- Voltage multipliers

FEATURES:

- Low profile package
- Glass passivated die for high reliability
- High peak forward surge current (IFSM)
- Low forward voltage drop (V_F)

MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	600	V
DC Blocking Voltage	V_{R}	600	V
RMS Reverse Voltage	V _{R(RMS)}	420	V
Average Forward Current	Ìο	5.0	Α
Peak Forward Surge Current, tp=8.3ms	I _{FSM}	150	Α
Operating and Storage Junction Temperature	T _I , T _{eta}	-55 to +150	°C

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

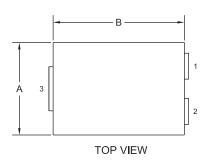
SYMBOL	TEST CONDITIONS	MIN	TYP 0.03	MAX 5.0	UNITS
l _R	V _R =600V				μA
^I R	V _R =600V, T _A =125°C		9.0	50	μΑ
BV_R	I _R =100μA	600			V
V_{F}	I _F =5.0A		0.94	1.0	V
C_J	V _R =0, f=1.0MHz		104	125	pF

CTLR5-06

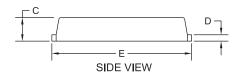
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TLM364 CASE - MECHANICAL OUTLINE

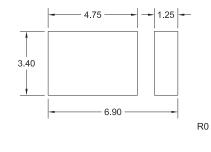


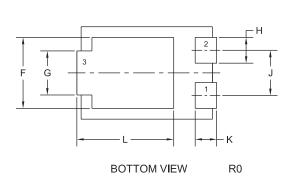
DIMENSIONS						
	INCHES		MILLIM	MILLIMETERS		
SYMBOL	MIN	MAX	MIN	MAX		
Α	0.167	0.172	4.25	4.35		
В	0.238	0.243	6.05	6.15		
С	0.039	0.048	1.00	1.20		
D	0.009	0.014	0.25	0.35		
E	0.250	0.262	6.35	6.65		
F	0.128	0.136	3.25	3.45		
G	0.076	0.085	1.95	2.15		
Н	0.044	0.052	1.10	1.30		
J	0.083		2.	2.10		
K	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)





LEAD CODE:

- 1) Anode 2) Anode
- 3) Cathode

MARKING: FULL PART NUMBER

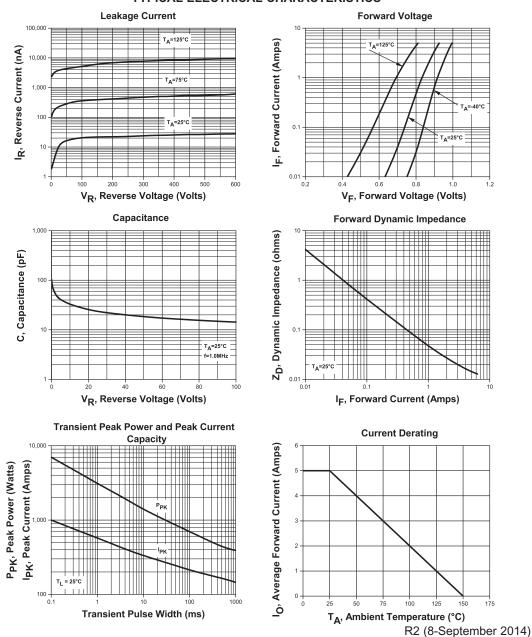
R2 (8-September 2014)

CTLR5-06





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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