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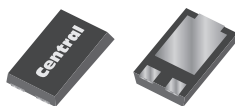
For any questions, you can email us directly:

sales@integrated-circuit.com

CTLHR10-06

**SURFACE MOUNT SILICON
HYPERFAST
RECOVERY RECTIFIER
10 AMP, 600 VOLT**

**HYPER
FAST**



Top View Bottom View

TLM364 CASE



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CTLHR10-06 is a HyperFast power rectifier designed for high voltage, high frequency applications such as PFC that require a low profile, high power density package.

MARKING CODE: CHR1006

APPLICATIONS:

- Power Factor Correction (PFC)
- Motor control
- Power management
- DC-DC output rectification

FEATURES:

- HyperFast recovery time (22ns TYP)
- Low reverse leakage current (1.2μA TYP)
- Low profile 1.2mm MAX package height

MAXIMUM RATINGS: (T_A=25°C)

Peak Repetitive Reverse Voltage	
DC Blocking Voltage	
RMS Reverse Voltage	
Average Forward Current (T _L =90°C)	
Peak Forward Surge Current, tp=8.3ms	
Operating and Storage Junction Temperature	
Thermal Resistance (Note 1)	
Thermal Resistance (Note 1)	

SYMBOL		UNITS
V _{RRM}	600	V
V _R	600	V
V _{R(RMS)}	420	V
I _O	10	A
I _{FSM}	150	A
T _J , T _{stg}	-65 to +175	°C
Θ _{JL}	10	°C/W
Θ _{JA}	23	°C/W

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

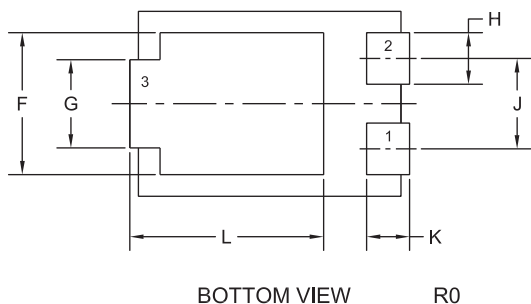
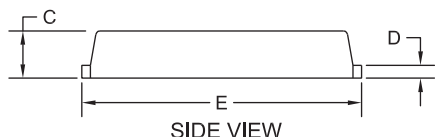
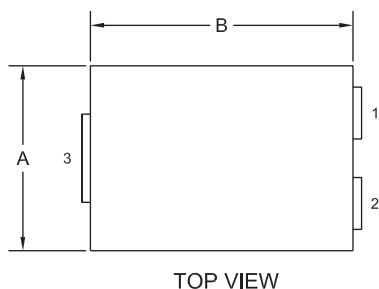
SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I _R	V _R =600V		1.2	10	μA
I _R	V _R =600V, T _A =150°C			500	μA
BV _R	I _R =0.5mA	600			V
V _F	I _F =10A		1.6	1.7	V
V _F	I _F =10A, T _A =125°C		1.15		V
V _F	I _F =10A, T _A =-40°C		1.8		V
C _J	V _R =4.0V, f=1.0MHz		42		pF
t _{rr}	I _F =10A, V _R =400V, di/dt=200A/μs		22	25	ns

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

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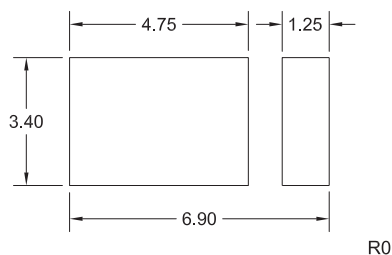
TLM364 CASE - MECHANICAL OUTLINE



SYMBOL	DIMENSIONS			
	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)



LEAD CODE:

- 1) Anode
- 2) Anode
- 3) Cathode

MARKING CODE: CHR1006

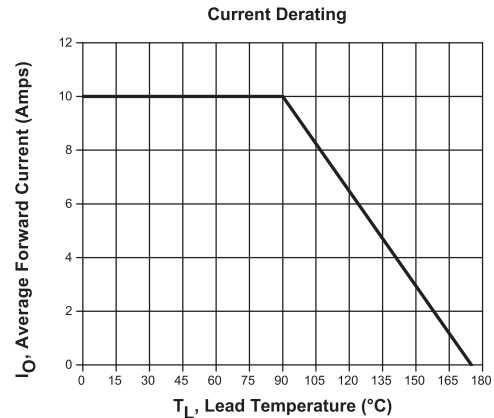
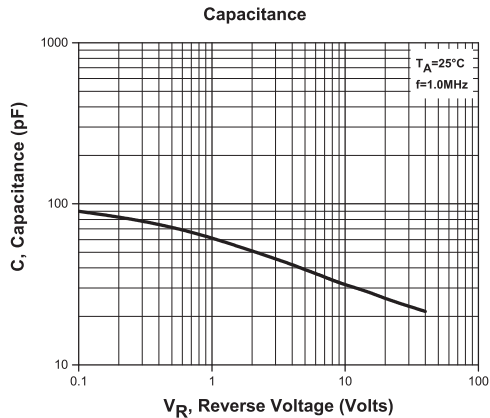
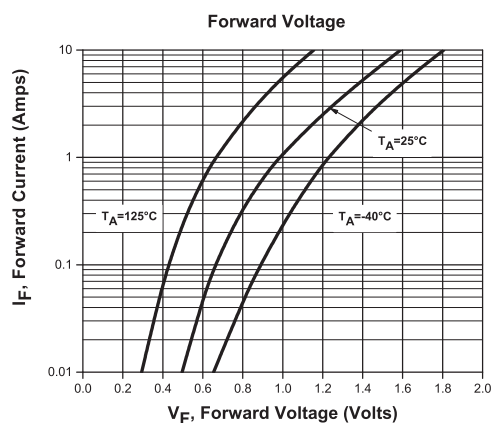
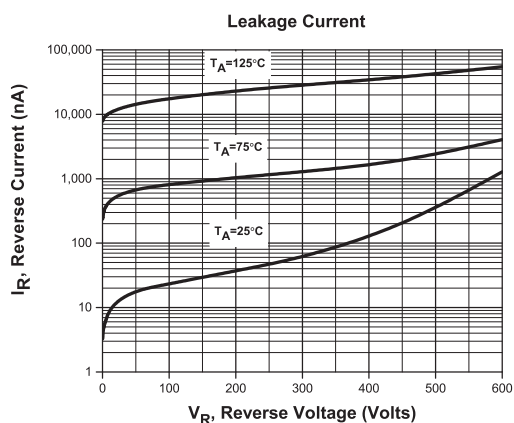
R1 (27-February 2014)

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TYPICAL ELECTRICAL CHARACTERISTICS



R1 (27-February 2014)

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 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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