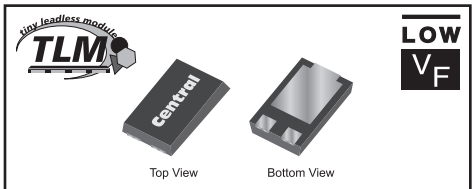
CTLSH15-30M364

SURFACE MOUNT SILICON
LOW V_F
SCHOTTKY RECTIFIER



TLM364 CASE

www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CTLSH15-30M364 is a high performance 15 Amp silicon Schottky rectifier designed for applications requiring high power capability and a low profile package.

MARKING CODE: CTSH1530

APPLICATIONS:

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

FEATURES:

- Low forward voltage, V_F=0.51V TYP @ 15A
- Low profile 1.2mm MAX package height

MAXIMUM RATINGS: (T_A=25°C)	**SYMBOL**		**UNITS**
Peak Repetitive Reverse Voltage	V_{RRM}	30	V
DC Blocking Voltage	V_R	30	V
RMS Reverse Voltage	$V_{R(RMS)}$	21	V
Average Forward Current (T_L=120°C)	I_O	15	A
Peak Forward Surge Current, tp=8.3ms	I_{FSM}	275	A
Operating and Storage Junction Temperature	T_J, T_{stg}	-55 to +150	°C
Thermal Resistance	Θ_{JA}	110	°C/W
Thermal Resistance	Θ_{JL}	4.5	°C/W

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

SYMBOL	**TEST CONDITIONS**	**MIN**	**TYP**	**MAX**	**UNITS**
I_R	V_R=30V		25	100	μA
I_R	V_R=30V, T_A=125°C		20	50	mA
BV_R	I_R=0.5mA	30			V
V_F	I_F=15A		0.51	0.56	V
C_J	V_R=4.0V, f=1.0MHz		920		pF

R1 (25-March 2013)

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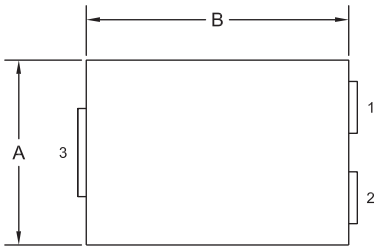
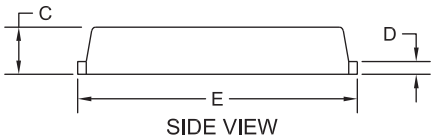
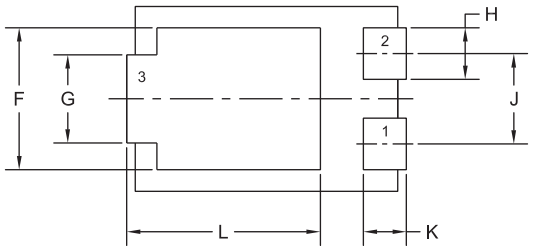
TLM364 CASE - MECHANICAL OUTLINE



TOP VIEW



SIDE VIEW

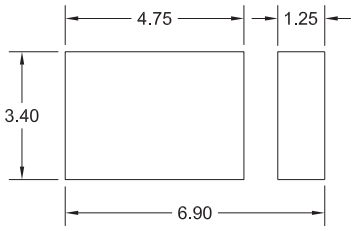


BOTTOM VIEW R0

DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	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)



R0

LEAD CODE:
1) Anode
2) Anode
3) Cathode

MARKING CODE: CTSH1530

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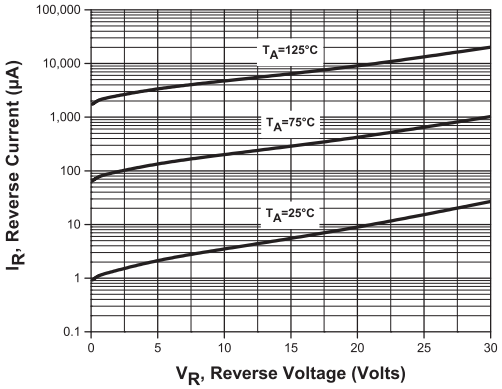
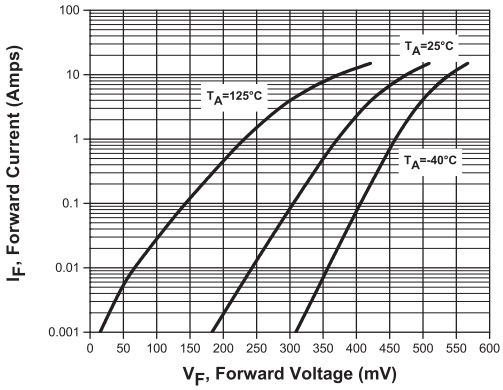
TYPICAL ELECTRICAL CHARACTERISTICS

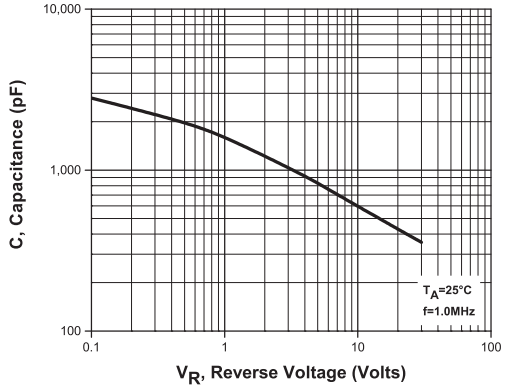
Leakage Current



Forward Voltage



Capacitance



Current Derating