

CTLSH8-60M364

**SURFACE MOUNT
LOW V_F
SILICON SCHOTTKY RECTIFIER**



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CTLSH8-60M364 is a high performance 8.0 amp silicon Schottky rectifier designed for applications as a by-pass diode in low profile solar panels.



MARKING CODE: CTLSH86

• Device is **Halogen Free** by design

APPLICATIONS:

- Solar by-pass diode
- OR-ing diode
- DC-DC output rectification
- Reverse polarity protection
- Power management

FEATURES:

- Low forward voltage, $V_F=0.54V$ MAX @ 8.0A
- Low reverse leakage current, $I_R=0.6mA$ MAX @ 60V
- Low profile 1.2mm MAX package height

MAXIMUM RATINGS: ($T_A=25^\circ C$)

Peak Repetitive Reverse Voltage
 DC Blocking Voltage
 RMS Reverse Voltage
 Average Forward Current ($T_L=125^\circ C$)
 Peak Forward Surge Current, $t_p=8.3ms$
 Operating and Storage Junction Temperature
 Thermal Resistance
 Thermal Resistance

SYMBOL		UNITS
V_{RRM}	60	V
V_R	60	V
$V_{R(RMS)}$	42	V
I_O	8.0	A
I_{FSM}	280	A
T_J, T_{stg}	-55 to +150	$^\circ C$
Θ_{JA}	60	$^\circ C/W$
Θ_{JL}	7.0	$^\circ C/W$

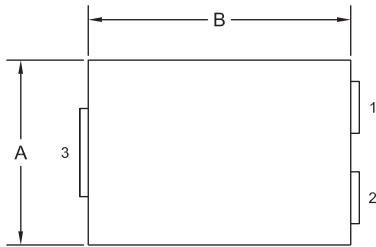
ELECTRICAL CHARACTERISTICS: ($T_A=25^\circ C$ unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I_R	$V_R=60V$		0.1	0.6	mA
I_R	$V_R=60V, T_A=125^\circ C$		18		mA
BV_R	$I_R=1.0mA$	60			V
V_F	$I_F=1.0A$		0.30	0.35	V
V_F	$I_F=1.0A, T_A=125^\circ C$		0.20		V
V_F	$I_F=8.0A$		0.47	0.54	V
V_F	$I_F=8.0A, T_A=125^\circ C$		0.46		V

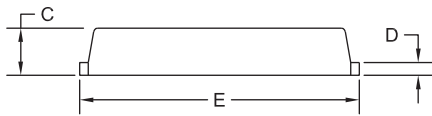
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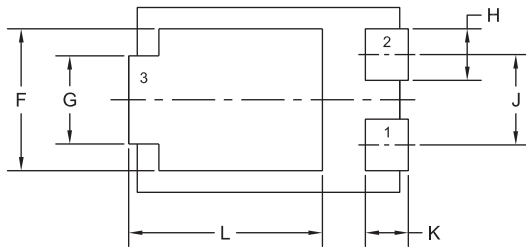
TLM364 CASE - MECHANICAL OUTLINE



TOP VIEW



SIDE VIEW

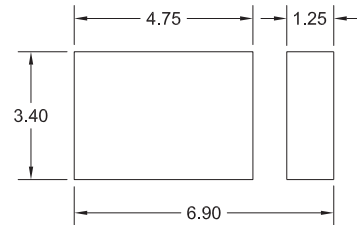


BOTTOM VIEW R0

SYMBOL	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)



R0

LEAD CODE:

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

MARKING CODE: CTLSH86

R2 (26-April 2012)