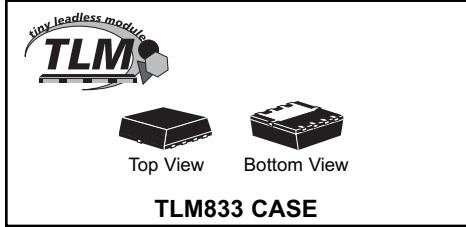


CTLSH5-40M833
SURFACE MOUNT
LOW V_F
SILICON
SCHOTTKY RECTIFIER
TINY LEADLESS MODULE™



MARKING CODE: CHA2

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

Continuous Reverse Voltage
Average Forward Current
Peak Forward Surge Current ($t_p \leq 1\text{ms}$)
Power Dissipation
Power Dissipation
Power Dissipation
Operating and Storage
Junction Temperature
Thermal Resistance
Thermal Resistance
Thermal Resistance

SYMBOL

V_R	40
I_O	5.0
I_{FSM}	TBD
P_D	4.5
P_D	4.0
P_D	2.5
T_J, T_{stg}	-65 to +150
θ_{JA}	27.78
θ_{JA}	31.25
θ_{JA}	50.00

UNITS

V
A
A
W (Note 1)
W (Note 2)
W (Note 3)
$^\circ\text{C}$
$^\circ\text{C/W}$ (Note 1)
$^\circ\text{C/W}$ (Note 2)
$^\circ\text{C/W}$ (Note 3)

ELECTRICAL CHARACTERISTICS PER DIODE: ($T_A=25^\circ\text{C}$ unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I_R	$V_R=20\text{V}$		15	150	μA
I_R	$V_R=40\text{V}$		25	200	μA
BV_R	$I_R=0.4\text{mA}$	40			V
V_F	$I_F=1.0\text{A}$		0.35		V
V_F	$I_F=2.0\text{A}$		0.41		V
V_F	$I_F=3.0\text{A}$		0.45		V
V_F	$I_F=4.0\text{A}$		0.48		V
V_F	$I_F=5.0\text{A}$		0.49	0.52	V

Notes: (1) Ceramic or aluminum core PC Board with copper mounting pad area of 75 mm²
(2) FR-4 Epoxy PC Board with copper mounting pad area of 75 mm²
(3) FR-4 Epoxy PC Board with copper mounting pad area of 25 mm²

Central™
Semiconductor Corp.

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CTLSH5-40M833 is a high performance 5.0 Amp Schottky Rectifier designed for applications where small size and operational efficiency are prime requirements. With a maximum power dissipation of 4.5W, this leadless package design has a watts per unit area at least twice that of equivalent package devices.

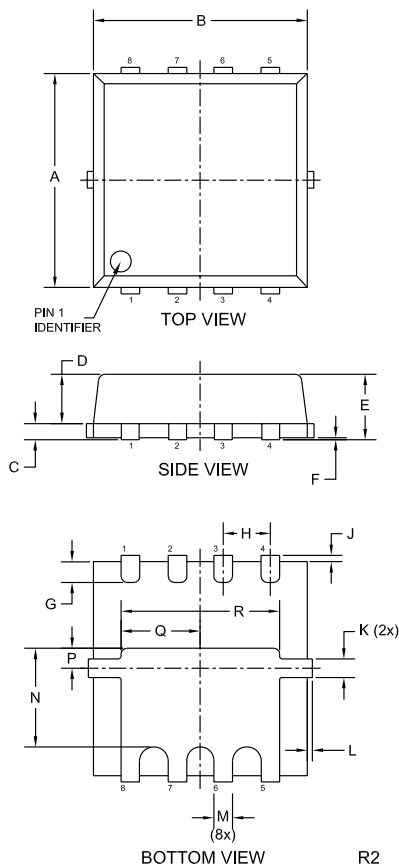
FEATURES:

- High Current ($I_F=5.0\text{A}$)
- High Thermal Efficiency
- Low Leakage/Low V_F
- 3 x 3mm TLM™ case

R1 (27-April 2006)

CTLSH5-40M833
SURFACE MOUNT
LOW V_F
SILICON
SCHOTTKY RECTIFIER
TINY LEADLESS MODULETM

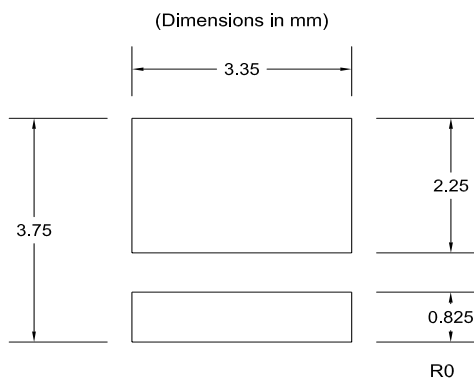
TLM833 CASE - MECHANICAL OUTLINE



SYMBOL	DIMENSIONS			
	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.114	0.122	2.90	3.10
B	0.114	0.122	2.90	3.10
C	0.006	0.010	0.15	0.25
D	0.026	0.030	0.65	0.75
E	0.031	0.039	0.80	1.00
F	0.000	0.002	0.00	0.05
G	0.008	0.018	0.20	0.45
H	0.026		0.65	
J	--	0.005	--	0.125
K	0.007	0.012	0.17	0.30
L	--	0.005	--	0.125
M	0.011	0.015	0.29	0.39
N	0.049	0.057	1.25	1.45
P	0.006	0.014	0.15	0.35
Q	0.040	0.048	1.01	1.21
R	0.085	0.093	2.16	2.36

TLM833 (REV:R2)

Optional Mounting Pad



For standard mounting refer
to TLM833 Package Details

LEAD CODE:

- 1) ANODE
- 2) ANODE
- 3) ANODE
- 4) ANODE
- 5) CATHODE
- 6) CATHODE
- 7) CATHODE
- 8) CATHODE

MARKING CODE: CHA2

R1 (27-April 2006)