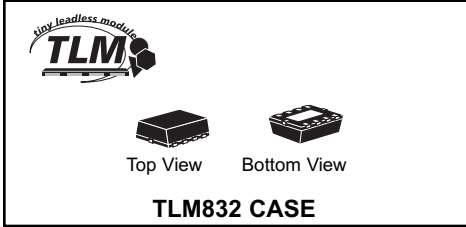




CTLSH2-40M832
SURFACE MOUNT
LOW V_F
SILICON SCHOTTKY RECTIFIER



CentralTM
Semiconductor Corp.

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CTLSH2-40M832 Low V_F Schottky Rectifier is a high quality Schottky Rectifier designed for applications where small size and operational efficiency are the prime requirements. With a maximum power dissipation of 1.9W, and a very small package footprint (approximately equal to the SOT-23), this leadless package design is capable of dissipating up to 5 times the power of similar devices in comparable sized surface mount packages.

MARKING CODE: CFB

FEATURES:

- Device is **Halogen Free** by design
- High Current ($I_F=2.0A$)
- Low Forward Voltage Drop ($V_F=0.5V$ Max @ 2.0A)
- High Thermal Efficiency
- Small TLM 3x2mm case

APPLICATIONS:

- DC/DC Converters
- Reverse Battery Protection
- Battery Powered Portable Equipment

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

Peak Repetitive Reverse Voltage
 Continuous Forward Current
 Peak Forward Surge Current, $t_p=8.3ms$
 Power Dissipation*
 Operating and Storage Junction Temperature
 Thermal Resistance*

SYMBOL		UNITS
V_{RRM}	40	V
I_F	2.0	A
I_{FSM}	15	A
P_D	1.9	W
T_J, T_{stg}	-65 to +125	$^\circ C$
Θ_{JA}	52.6	$^\circ C/W$

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

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I_R	$V_R=40V$			0.2	mA
I_R	$V_R=40V, T_A=100^\circ C$			25	mA
BV_R	$I_R=100\mu A$	40			V
V_F	$I_F=1.0A$			0.45	V
V_F	$I_F=2.0A$			0.50	V
C_D	$V_R=10V, f=1.0MHz$		80		pF

* FR-4 Epoxy PC Board with copper mounting pad area of 54mm²

