

TLM832DS CASE

APPLICATIONS:

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

Contral	
Centrai	
Semiconductor Corp.	

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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CTLSH1-50M832DS Dual, Isolated, Low V_F Silicon Schottky rectifier is designed for applications where small size and operational efficiency are the prime requirements. With a maximum power dissipation of 1.65W, and a very small package footprint (approximately equal to the SOT-23), this leadless package design is capable of dissipating up to 4 times the power of similar devices in comparable sized surface mount packages.

MARKING CODE: CFX

FEATURES:

- High Current (I_F=1.0A)
- Low Forward Voltage Drop (V_F=0.55V MAX @ 1.0A)
- High Thermal Efficiency
- Small TLM 3x2mm case

MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V _{RRM}	50	V
Continuous Forward Current	١ _F	1.0	А
Peak Repetitive Forward Current, tp≤1.0ms	IFRM	3.5	А
Peak Forward Surge Current, tp=8.0ms	IFSM	10	А
Power Dissipation (Note 1)	PD	1.65	W
Operating and Storage Junction Temperature	TJ, T _{stg}	-65 to +150	°C
Thermal Resistance (Note 1)	Θ_{JA}	75.8	°C/W

ELECTRICAL CHARACTERISTICS PER DIODE: (TA=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
IR	V _R =5.0V			10	μΑ
I _R	V _R =8.0V			20	μA
I _R	V _R =15V			50	μA
I _R	V _R =50V			0.5	mA
I _R	V _R =50V, T _A =100°C			50	mA
BVR	I _R =100μΑ	50			V
V _F	I _F =10mA			0.29	V
VF	I _F =100mA			0.36	V
VF	I _F =500mA			0.45	V
V _F	I _F =1.0A			0.55	V
СЈ	V _R =4.0V, f=1.0MHz		50		pF

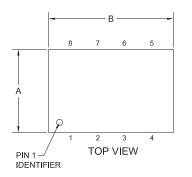
Note 1: FR-4 Epoxy PC Board with copper mounting pad area of 54mm²

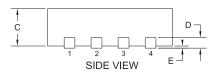
R2 (22-December 2015)

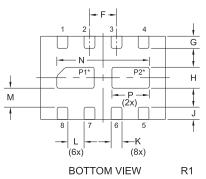




SURFACE MOUNT SILICON DUAL, HIGH CURRENT LOW VF SCHOTTKY RECTIFIER

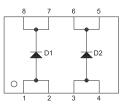






* Exposed pad P1 common to pins 7 and 8 Exposed pad P2 common to pins 5 and 6



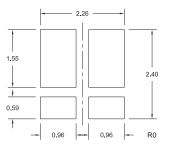


DIMENSIONS				
	INCHES		MILLIN	IETERS
SYMBOL	MIN	MAX	MIN	MAX
А	0.077	0.081	1.95	2.05
В	0.116	0.120	2.95	3.05
С	0.031	0.039	0.80	1.00
D	0.006	0.010	0.16	0.25
E	0.000	0.002	0.00	0.05
F	0.026		0.65	
G	0.008	0.016	0.19	0.40
Н	0.014	0.024	0.35	0.61
J	0.008	0.016	0.19	0.40
K	0.008	0.012	0.21	0.31
L	0.013	0.017	0.34	0.44
М	0.006		0.15	_
N	0.087		2.	22
Р	0.029	0.039	0.74	1.00

TLM832DS (REV:R1)

SUGGESTED MOUNTING PADS For Maximum Power Dissipation

(Dimensions in mm)



LEAD CODE:

1) Anode D1	5) Cathode D2
2) Anode D1	6) Cathode D2
3) Anode D2	Cathode D1
4) Anode D2	8) Cathode D1

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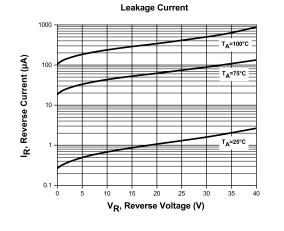
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TLM832DS CASE - MECHANICAL OUTLINE

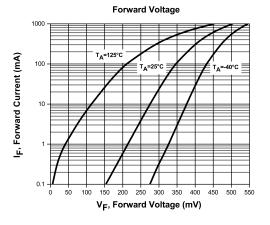


SURFACE MOUNT SILICON DUAL, HIGH CURRENT LOW V_F SCHOTTKY RECTIFIER

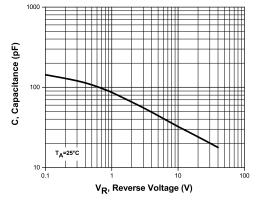




TYPICAL ELECTRICAL CHARACTERISTICS







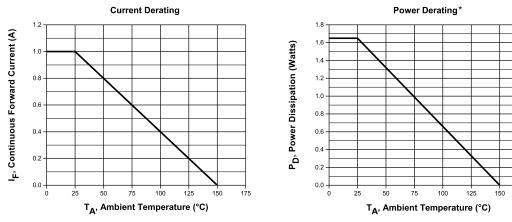
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SURFACE MOUNT SILICON DUAL, HIGH CURRENT LOW V_F SCHOTTKY RECTIFIER



TYPICAL ELECTRICAL CHARACTERISTICS

*FR-4 Epoxy PC Board with copper mounting pad area of 54mm^2

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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

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

ss your design challenges.

· Custom product packing

- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- · Application and design sample kits

Custom bar coding for shipments

Custom product and package development

REQUESTING PRODUCT PLATING

- 1. If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
- If requesting Lead (Pb) Free plated devices, add the suffix "PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

CONTACT US

Corporate Headquarters & Customer Support Team

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Product End of Life Notification

PDN ID:	PDN01077
Notification Date:	4/05/18
Last Buy Date:	N/A
Last Shipment Date	N/A

Please be advised that Central Semiconductor must immediately discontinue the product(s) listed in the attached PDN notice. We are unable to accept any further orders for these products **unless** we have available inventory on hand.

You may have purchased one or more of the products listed. Please do not hesitate to contact your local Central Semiconductor sales representative with any questions or needs you may have. Central regrets any inconvenience this may cause.

Sincerely,

Central Semiconductor Corp.

DISCLAIMER: This End of Life (EOL) notification is in accordance with JEDEC standard JESD48 - Product Discontinuance. Central Semiconductor Corp. will make every effort to offer life-time buy (LTB) opportunities and/or offer replacement devices to existing customers for discontinued devices, however, one or both may not be possible for all devices. Please contact your local Central Semiconductor sales representative for LTB opportunities/additional information.



Product End of Life Notification

PDN ID:	PDN01077
Notification Date:	4/05/18
Last Buy Date:	N/A
Last Shipment Date	N/A

Summary: The following devices in the TLM832DS package are being discontinued and are now classified as End of Life (EOL).

Although Central Semiconductor Corp. makes every effort to continue to produce devices that have been proclaimed EOL (End of Life) by various manufacturers, it is an accepted industry practice to discontinue certain devices when customer demand falls below a minimum level of sustainability. Accordingly, the following product(s) have been transitioned to End of Life status as part of Central's Product Management Process. Any replacement product will be noted below. The effective date for placing the last purchase order will be six(6) months from the date of this notice and twelve(12) months from the notice date for final shipments; this may be extended if inventory is available.

<u>Central Part Number</u>	Replacement
CTLDM303N-M832DS BK	N/Ā
CTLDM303N-M832DS TR	N/A
CTLDM304P-M832DS TR	N/A
CTLDM7120-M832DS BK	N/A
CTLDM7120-M832DS TR	N/A
CTLDM8120-M832DS BK	N/A
CTLDM8120-M832DS TR	N/A
CTLSH1-40M832DS BK	N/A
CTLSH1-40M832DS TR	N/A
CTLSH1-50M832DS BK	N/A
CTLSH1-50M832DS TR	N/A

Central would be happy to assist you by providing additional information or technical data to help locate an alternate source if we have no replacement available. Please email your requests to engineering@centralsemi.com.

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