

APPLICATIONS:

- Load/Power switches
- Power supply converter circuits
- Battery powered equipment including cell phones, digital cameras, pagers, PDAs, etc.



www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMPSH1-4LE is an Enhanced high current, low leakage, low V_F, Schottky rectifier in a surface mount SOT-23F package. It is suitable for all applications requiring premium performance in a small sized, high current Schottky rectifier that offers both very low V_F and leakage current specifications.

MARKING CODE: CSE

FEATURES:

- Current (IF=1.0A)
- Low forward voltage drop (VF=0.39V MAX @ 1.0A)
- Low reverse current (150µA TYP @ VR=20V)
- Small, surface mount, power SOT-23F package

MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Continuous Reverse Voltage	V _R	40	V
Average Forward Current	Ι _Ο	1.0	А
Peak Forward Surge Current, tp=8.3ms	IFSM	20	А
Power Dissipation	PD	350	mW
Operating and Storage Junction Temperature	т _Ј , Т _{stg}	-65 to +125	°C
Thermal Resistance	Θ_{JA}	286	°C/W

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

SYMBOL	TEST CONDITIONS	MIN	ТҮР	MAX	UNITS
I _R	V _R =5.0V		60	200	μA
I _R	V _R =10V		85	300	μA
I _R	V _R =20V		150	500	μA
I _R	V _R =30V		250	800	μA
I _R	V _R =40V		350	900	μA
вv _R	I _R =1.0mA	40			V
V _F	I _F =100mA			300	mV
V _F	I _F =500mA			350	mV
V _F	I _F =1.0A			400	mV
V _F	I _F =1.5A			450	mV
СЈ	V _R =10V, f=1.0MHz		50		pF

R4 (21-September 2015)



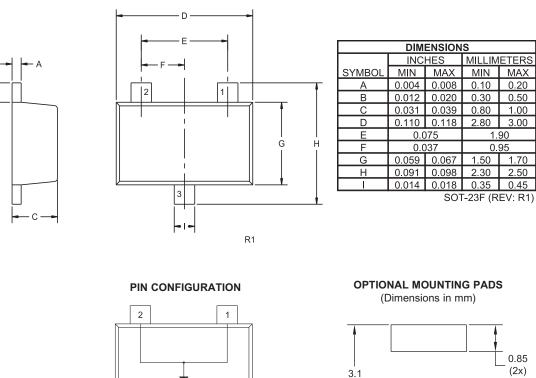


SURFACE MOUNT SILICON HIGH CURRENT LOW V_F, LOW LEAKAGE SCHOTTKY RECTIFIER

1

В

4



3

MARKING CODE: CSE

LEAD CODE: 1) Anode

Anode
Cathode

SOT-23F CASE - MECHANICAL OUTLINE

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R0

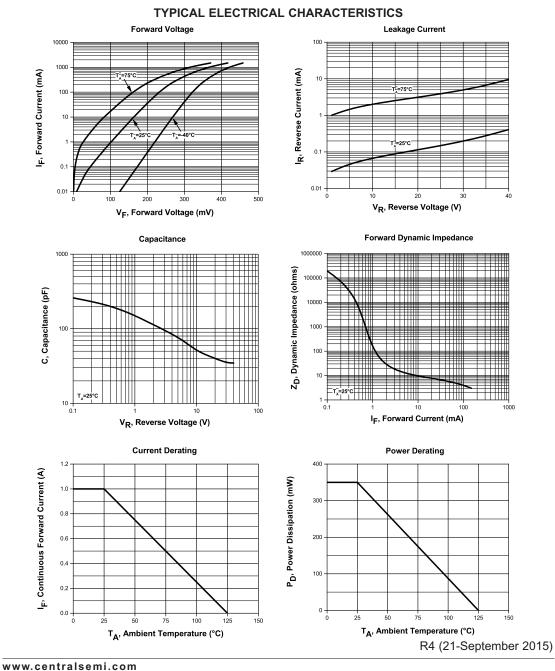
- 2.4 -

(For standard mounting pads see SOT-23F Package Details)





SURFACE MOUNT SILICON HIGH CURRENT LOW V_F, LOW LEAKAGE SCHOTTKY RECTIFIER



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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

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Worldwide Distributors: www.centralsemi.com/wwdistributors

For the latest version of Central Semiconductor's **LIMITATIONS AND DAMAGES DISCLAIMER**, which is part of Central's Standard Terms and Conditions of sale, visit: <u>www.centralsemi.com/terms</u>





Product End of Life Notification

PDN ID:	PDN01160
Notification Date:	8/11/20
Last Buy Date:	2/11/21
Last Shipment Date	8/11/21

Summary: All devices manufactured in the SOT-23F package are discontinued and 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 other 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 ongoing Product Management Process. Any replacement products are noted below. The effective date for placing last purchase orders will be six (6) months from the date of this notice and twelve (12) months from the notice date for final shipments, and minimum order quantities may apply. The last purchase and shipment dates may be extended if inventory is available.

* All Plating types (PBFREE,TIN/LEAD) for each item listed is included in this notice.

Central Part Number	Replacement
CEN1232 BK	N/A, Stock Only
CEN1232 TR	N/A, Stock Only
CEN1233 BK	N/A, Stock Only
CEN1233 TR	N/A, Stock Only
CMPSH05-4C BK	N/A, Stock Only
CMPSH05-4C TR	N/A, Stock Only
CMPSH1-4 BK	N/A, Stock Only
CMPSH1-4 TR	N/A, Stock Only
CMPSH1-4L BK	N/A, Stock Only
CMPSH1-4L TR	N/A, Stock Only
CMPSH1-4LE BK	N/A, Stock Only
CMPSH1-4LE TR	N/A, Stock Only

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.

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.