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# DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMPSH1-4 is a High Current, Schottky Rectifier in a surface mount SOT-23F package suitable for high current applications in mobile communications and DC-DC converters.

# MARKING CODE: SH1

#### FEATURES:

- High Current (1.0 Amp)
- Power SOT-23F Package

MAXIMUM RATINGS: (T <sub>A</sub> =25°C)	SYMBOL		UNITS
Continuous Reverse Voltage	VR	40	V
Continuous Forward Current	١ <sub>F</sub>	1.0	А
Average Forward Current	IO	1.75	А
Peak Forward Surge Current, t≤100µs	IFSM	12	А
Peak Forward Surge Current, t≤10ms	IFSM	5.2	А
Power Dissipation	PD	350	mW
Operating and Storage Junction Temperature	TJ, T <sub>stg</sub>	-65 to +150	°C
Thermal Resistance	$\Theta_{JA}$	357	°C/W

#### ELECTRICAL CHARACTERISTICS: (T<sub>A</sub>=25°C unless otherwise noted)

NITS
μA
V
mV
pF
ns

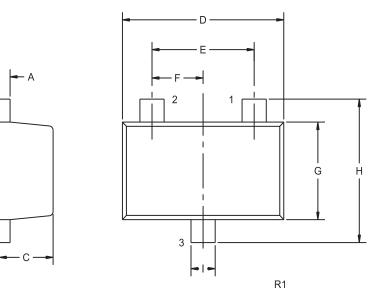
R4 (30-November 2015)



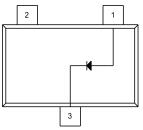


B

# SOT-23F CASE - MECHANICAL OUTLINE



PIN CONFIGURATION



**LEAD CODE:** 1) Anode

2) No Connection3) Cathode

MARKING CODE: SH1

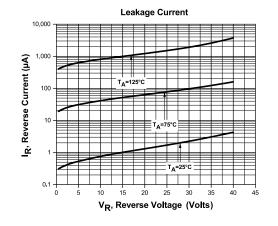
DIMENSIONS					
	INCHES		MILLIM	ETERS	
SYMBOL	MIN	MAX	MIN	MAX	
А	0.004	0.008	0.10	0.20	
В	0.012	0.020	0.30	0.50	
С	0.031	0.039	0.80	1.00	
D	0.110	0.118	2.80	3.00	
Е	0.075		1.	90	
F	0.037		0.	95	
G	0.059	0.067	1.50	1.70	
Н	0.091	0.098	2.30	2.50	
	0.014	0.018	0.35	0.45	
		SOT	Г <b>-</b> 23F (R	EV: R1)	

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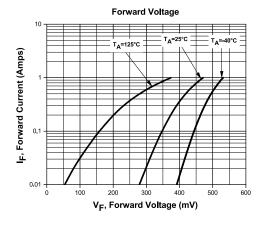
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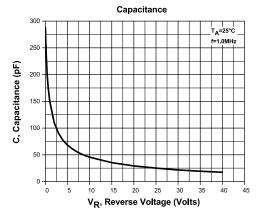










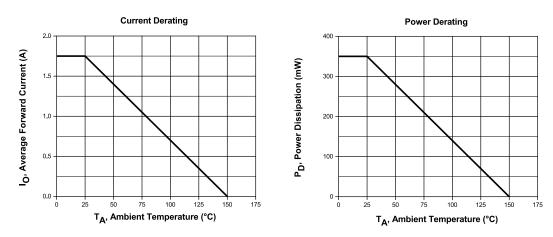


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# TYPICAL ELECTRICAL CHARACTERISTICS

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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 (2<sup>nd</sup> day air)
- Online technical data and parametric search
- SPICE models
- Custom electrical curves
- Environmental regulation compliance
- Customer specific screening
- Up-screening capabilities

Special wafer diffusions

· Custom product packing

- 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:	PDN01160
Notification Date:	8/11/20
Last Buy Date:	
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.