SURFACE MOUNT SILICON DUAL, COMMON CATHODE HIGH CURRENT, LOW V_F SCHOTTKY DIODE





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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMPSH05-4C is a dual, common cathode high current, low V_{F} 40 volt Schottky diode pair packaged in a space saving SOT-23F surface mount case. This device has been designed for small signal general purpose applications when small size and operational efficiency are prime requirements.

MARKING CODE: C405

FEATURES:

- Low V_F=0.35V max @ 100mA
- V_{RRM}=40V
- I_F=500mA

MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	40	V
Continuous Forward Current	I _F	500	mA
Peak Repetitive Forward Current, tp≤1.0ms	^I FRM	3.5	Α
Peak Forward Surge Current, tp=8.0ms	I _{FSM}	10	Α
Power Dissipation	P_{D}	350	mW
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +150	°C
Thermal Resistance	Θ_{JA}	357	°C/W

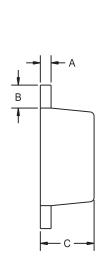
ELECTRICAL CHARACTERISTICS PER DIODE: (T_A=25°C unless otherwise noted)

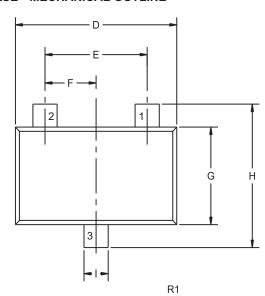
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I_{R}	V _R =10V		30	μΑ
I_{R}	V _R =30V		100	μΑ
BV_R	I _R =500μA	40		V
V_{F}	I _F =100μA		0.13	V
V_{F}	I _F =1.0mA		0.21	V
V_{F}	I _F =10mA		0.27	V
V_{F}	I _F =100mA		0.35	V
V_{F}	I _F =500mA		0.47	V
CJ	V_R =1.0 V , f=1.0 M Hz		50	pF

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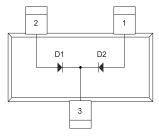


SOT-23F CASE - MECHANICAL OUTLINE





PIN CONFIGURATION



LEAD CODE:

- 1) Anode D2
- 2) Anode D1
- 3) Cathode D1, D2

DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	MIN	MAX	MIN	MAX
Α	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
E	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-23F (REV: R1)

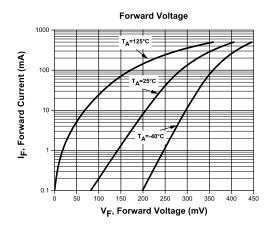
MARKING CODE: C405

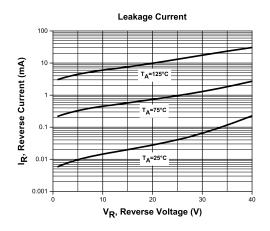
R3 (8-January 2018)

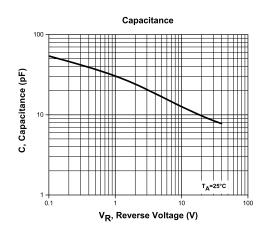
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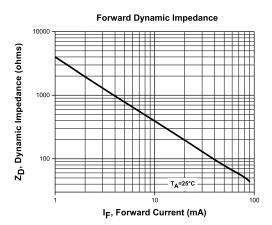


TYPICAL ELECTRICAL CHARACTERISTICS





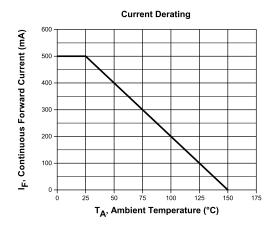


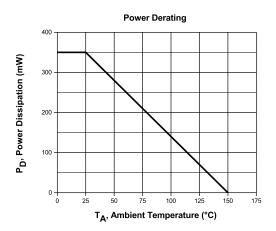


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TYPICAL ELECTRICAL CHARACTERISTICS





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

- · Custom bar coding for shipments
- · Custom product packing

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free guick 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

- Special wafer diffusions
- PbSn plating options
- · Package details
- Application notes
- · Application and design sample kits
- 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).
- 2. 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

Central Semiconductor Corp. 145 Adams Avenue Hauppauge, NY 11788 USA

Main Tel: (631) 435-1110 Main Fax: (631) 435-1824

Support Team Fax: (631) 435-3388

www.centralsemi.com

Worldwide Field Representatives: www.centralsemi.com/wwreps

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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.

CCC785 REV 002