

SURFACE MOUNT SILICON SCHOTTKY DIODES



 V_{F}

 V_F

 V_{F}

CJ

t_{rr}

I_F=1.0mA

I_F=50mA

I_F=100mA

V_R=1.0V, f=1.0MHz

 $I_F = I_R = 10 \text{mA}, I_{rr} = 1.0 \text{mA}, R_L = 100 \Omega$



305

535

670

330

600

750

10

5.0

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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMUSH2-4 series devices are silicon Schottky diodes, epoxy molded in a SOT-523 surface mount package, designed for fast switching applications requiring a low forward voltage drop.

CMUSH2-40	SINGLE A: DUAL, COMMON ANODE C: DUAL, COMMON CATHODE C: DUAL, IN SERIES	MARKING MARKING	CODE: C42 CODE: C4A CODE: C4C CODE: C4S			
MAXIMUM R	ATINGS: (T _A =25°C)	SYMBOL			UNITS	
Peak Repetitiv	ve Reverse Voltage	V _{RRM}	40	0	V	
Continuous Fo	orward Current	١ _F	20	0	mA	
Peak Repetitiv	ve Forward Current	IFRM	30	0	mA	
Peak Forward	I Surge Current, tp=10ms	IFSM	60	0	mA	
Power Dissipa	Power Dissipation		25	60	mW	
Operating and Storage Junction Temperature		TJ, T _{stg}	-65 to +150		°C	
Thermal Resistance		Θ_{JA}	500		°C/W	
		DE: (T _A =25°C unless otherwise noted)				
symbol I _R	TEST CONDITIONS V _R =25V	MIN	TYP 80	MAX 500	UNITS nA	
I _R	V _R =25V, T _A =100°C		25	100	μΑ	
BVR	I _R =100μA	40	55		V	
V _F	I _F =100μA		240	260	mV	
V _F	I _F =500μA		285	310	mV	

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mV

mV

mV

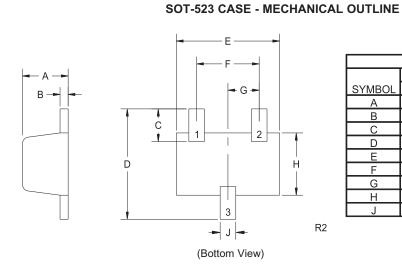
pF

ns



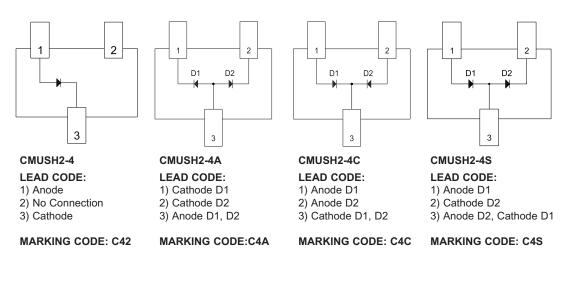
CMUSH2-4 CMUSH2-4A CMUSH2-4C CMUSH2-4S

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DIMENSIONS							
	INCHES		MILLIMETERS				
SYMBOL	MIN	MAX	MIN	MAX			
А	0.023	0.031	0.58	0.78			
В	0.002	800.0	0.04	0.20			
С	0.013	0.021	0.34	0.54			
D	0.059	0.067	1.50	1.70			
Е	0.059	0.067	1.50	1.70			
F	0.035	0.043	0.90	1.10			
G	0.020		0.50				
Н	0.031	0.039	0.78	0.98			
J	0.010	0.014	0.25	0.35			
SOT-523 (REV: R2)							

PIN CONFIGURATIONS



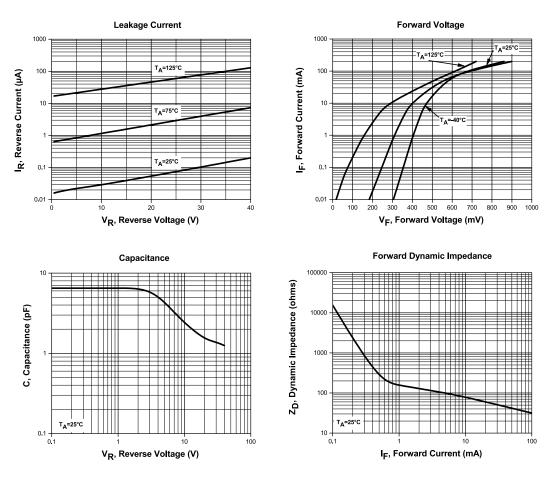
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TYPICAL ELECTRICAL CHARACTERISTICS

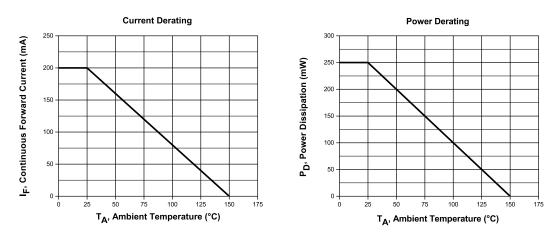
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OUTSTANDING SUPPORT AND SUPERIOR SERVICES

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 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

· Custom product packing

Custom bar coding for shipments

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

REQUESTING PRODUCT PLATING

- If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when 1. 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

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Product End of Life Notification

PDN ID:	PDN01233
Notification Date:	6/01/22
Last Buy Date:	12/01/22
Last Shipment Date	6/01/23

Summary: The CMUSH2-4 series Schottky diodes are discontinued and now classified as 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 Portfolio Management. 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 are included in this notice.

Central Part Number	Suggested Replacement
CMUSH2-4 BK	N/A
CMUSH2-4 TR	N/A
CMUSH2-4A BK	N/A
CMUSH2-4A TR	N/A
CMUSH2-4C BK	N/A
CMUSH2-4C TR	N/A
CMUSH2-4L BK	N/A
CMUSH2-4L TR	N/A
CMUSH2-4S BK	N/A
CMUSH2-4S 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. If you would like assistance, please visit https://my.centralsemi.com/submit-inquiry?type=ER to submit an online inquiry.

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.