

 Voltage clamping Steering diode

· Flyback diode

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The CENTRAL SEMICONDUCTOR CMUSH2-4L is a high current, low V_F silicon Schottky diode in an SOT-523 surface mount package.

- Low forward voltage (240mV @ 10mA)
- High peak forward surge current (1.0A)
- Energy efficiency
 - Space saving package

MAXIMUM RATINGS: (T _A =25°C) Peak Repetitive Reverse Voltage	SYMBOL V _{RRM}	40	UNITS V
Continuous Forward Current	١ _F	200	mA
Peak Repetitive Forward Current	IFRM	350	mA
Peak Forward Surge Current, tp=10ms	IFSM	1.0	А
Power Dissipation	PD	250	mW
Operating and Storage Junction Temperature	TJ, T _{stg}	-65 to +150	°C
Thermal Resistance	Θ_{JA}	500	°C/W

ELECTRICAL CHARACTERISTICS: (T _A =25°C unless otherwise noted)					
SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
IR	V _R =20V		11	50	μA
BVR	I _R =100μA	40	53		V
VF	I _F =10mA		0.24	0.325	V
VF	I _F =100mA		0.35	0.4	V
VF	I _F =200mA		0.42	0.5	V
CJ	V _R =4.0V, f=1.0MHz		8.5	10	pF
t _{rr}	I _F =I _R =10mA, I _{rr} =1.0mA, R _L =100Ω		4.0	5.0	ns

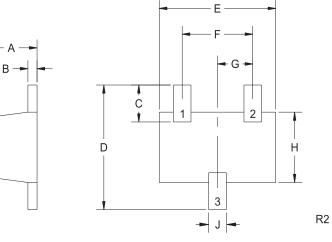
R4 (13-November 2015)



CMUSH2-4L

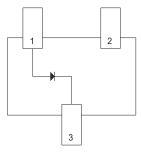
SURFACE MOUNT SILICON HIGH CURRENT LOW V_F SCHOTTKY DIODE

SOT-523 CASE - MECHANICAL OUTLINE



(Bottom View)

PIN CONFIGURATION



DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	MIN	MAX	MIN	MAX
А	0.023	0.031	0.58	0.78
В	0.002	0.008	0.04	0.20
С	0.013	0.021	0.34	0.54
D	0.059	0.067	1.50	1.70
E	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
		SO	T-523 (R	EV: R2)

LEAD CODE: 1) Anode 2) No Connection 3) Cathode

MARKING CODE: U24

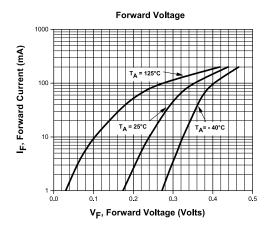
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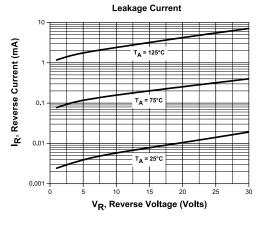


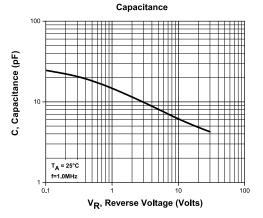
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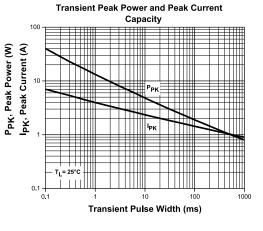
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TYPICAL ELECTRICAL CHARACTERISTICS







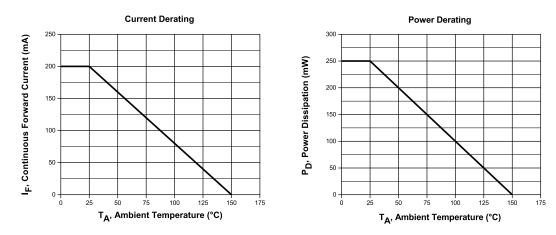
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TYPICAL ELECTRICAL CHARACTERISTICS

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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

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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.