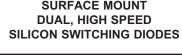
CMUD2836 CMUD2838

SURFACE MOUNT DUAL, HIGH SPEED





www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMUD2836 and CMUD2838 types are ultra-high speed silicon switching diodes manufactured by the epitaxial planar process, in an epoxy molded ULTRAmini™ surface mount package, designed for high speed switching applications.



The following configurations are available:

CMUD2836 DUAL, COMMON ANODE **MARKING CODE: 2CA** CMUD2838 DUAL, COMMON CATHODE **MARKING CODE: 6CA**

MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	75	V
Average Forward Current	IO	200	mA
Peak Forward Current	I _{FM}	300	mA
Power Dissipation	P_{D}	250	mW
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +150	°C
Thermal Resistance	Θ_{JA}	500	°C/W

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

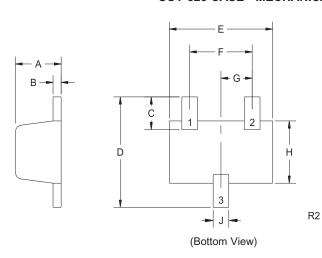
SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I_{R}	V _R =50V			100	nA
BV_R	I _R =100μA	75			V
٧F	I _F =10mA			1.0	V
V_{F}	I _F =50mA			1.0	V
٧F	I _F =100mA			1.2	V
C_T	V _R =0, f=1.0MHz		1.5	4.0	pF
t _{rr}	$I_R=I_F=10$ mA, $I_{rr}=1.0$ mA, $R_L=100$ Ω			4.0	ns

CMUD2836 CMUD2838

SURFACE MOUNT DUAL, HIGH SPEED SILICON SWITCHING DIODES



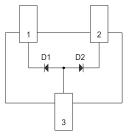
SOT-523 CASE - MECHANICAL OUTLINE



DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	MIN	MAX	MIN	MAX
Α	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

SOT-523 (REV: R2)

PIN CONFIGURATIONS



CMUD2836 CMU

LEAD CODE:

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

CMUD2838

LEAD CODE:

D1

D2

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

MARKING CODE: 2CA

MARKING CODE: 6CA

3

R5 (9-February 2010)

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 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

- · 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

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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: www.centralsemi.com/terms

www.centralsemi.com (001)



Product End of Life Notification

PDN ID:	PDN01237 Rev:001
Notification Date:	12/21/22
Last Buy Date:	N/A
Last Shipment Date	N/A

Summary: The following items are discontinued and now considered End of Life (EOL). Rev:001 of PDN#01037, Dec 21, 2022, issued to remove CMLT3474 BK and CMLT3474 TR to address market demand; CMLT3474 BK and CMLT3474 TR are now active devices.

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.

Suggested Replacement
N/A
Item CMLT3474 BK removed from PDN; device now active.
Item CMLT3474 TR removed from PDN; device now active.

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.

CCC785 REV 002



Product End of Life Notification

PDN ID:	PDN01276
Notification Date:	2/19/25
Last Buy Date:	8/19/25
Last Shipment Date	2/19/26

https://www.centralsemi.com

Summary: All devices manufactured in the SOT-523 package are discontinued and now classified as End of Life (EOL). Available options are:

- 1. Orders will be accepted for products with available inventory.
- 2. Last Time Buy (LTB) may be available for certain items.
- 3. A replacement product not available at the time of this notice, may be under development.

Please contact your Central Semiconductor Customer Service Representative at 001.631.435.1110

Although Central Semiconductor 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
BC846AT BK	N/A
BC846AT TR	N/A
BC846BT BK	N/A
BC846BT TR	N/A
BC847AT BK	N/A
BC847AT TR	N/A
BC847BT BK	N/A
BC847BT TR	N/A
BC847CT BK	N/A
BC847CT TR	N/A
BC856AT BK	N/A
BC856AT TR	N/A
BC856BT BK	N/A
BC856BT TR	N/A
BC857AT BK	N/A
BC857AT TR	N/A
BC857BT BK	N/A
BC857BT TR	N/A
BC857CT BK	N/A
BC857CT TR	N/A
CMUDM7001 BK	N/A
CMUDM7001 TR	N/A
CMUDM7004 BK	N/A
CMUDM7004 TR	N/A
CMUDM7005 BK	N/A
CMUDM7005 TR	N/A
CMUDM8001 BK	N/A
CMUDM8001 TR	N/A
CMUDM8004 BK	N/A
CMUDM8004 TR	N/A
CMUDM8005 BK	N/A
*** CONTINUED ***	

DISCLAIMER: This End of Life (EOL) notification is in accordance with JEDEC standard JESD48 - Product Discontinuance. Central Semiconductor 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 003



https://www.centralsemi.com

Product End of Life Notification

PDN ID:	PDN01276
Notification Date:	2/19/25
Last Buy Date:	8/19/25
Last Shipment Date	2/19/26

*** CONTINUED FROM PRIOR PAGE ***

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

Central Part Number	Suggested Replacement
CMUDM8005 TR	N/A
CMUD2838 BK	N/A
CMUD2838 TR	N/A
CMUD4448 BK	N/A
CMUD4448 TR	N/A
CMUD6263AE BK	N/A
CMUD6263AE TR	N/A
CMUD6263CE BK	N/A
CMUD6263CE TR	N/A
CMUD6263E BK	N/A
CMUD6263E TR	N/A
CMUD6263SE BK	N/A
CMUD6263SE TR	N/A
CMUSH05-4 BK	N/A
CMUSH05-4 TR	N/A
CMUT2222A BK	N/A
CMUT2222A TR	N/A
CMUT2907A BK	N/A
CMUT2907A TR	N/A
CMUT3410 BK	N/A
CMUT3410 TR	N/A
CMUT3904 BK	N/A
CMUT3904 TR	N/A
CMUT3906 BK	N/A
CMUT3906 TR	N/A
CMUT4401 BK	N/A
CMUT4401 TR	N/A
CMUT4403 BK	N/A
CMUT4403 TR	N/A
CMUT5087E BK	N/A
CMUT5087E TR	N/A
CMUT5088E BK	N/A
CMUT5088E TR	N/A
CMUT5179 BK	N/A
CMUT5179 TR	N/A
CMUT5401 BK	N/A
CMUT5401 TR	N/A
CMUT5551 BK	N/A
CMUT5551 TR	N/A
CMUT7410 BK	N/A
CMUT7410 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://mv.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 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 003

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Central Semiconductor:

CMUD2836 TR TIN/LEAD CMUD2838 TR TIN/LEAD