CMUD2836 CMUD2838

DUAL, HIGH SPEED





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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)

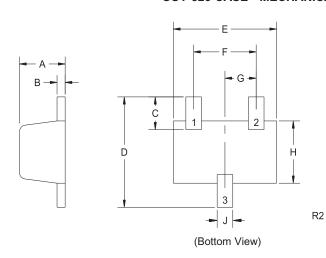
SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I_{R}	V _R =50V			100	nA
BV_R	I _R =100μA	75			V
VF	I _F =10mA			1.0	V
V_{F}	I _F =50mA			1.0	V
VF	I _F =100mA			1.2	V
C_T	V _R =0, f=1.0MHz		1.5	4.0	pF
t _{rr}	$I_R=I_F=10$ mA, $I_{rr}=1.0$ mA, $R_L=100$ Ω			4.0	ns

CMUD2836 CMUD2838

SURFACE MOUNT DUAL, HIGH SPEED SILICON SWITCHING DIODES



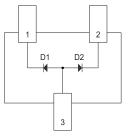
SOT-523 CASE - MECHANICAL OUTLINE



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



D1 D2

CMUD2836

LEAD CODE:

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

CMUD2838

LEAD CODE:

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

MARKING CODE: 2CA

MARKING CODE: 6CA

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 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

Worldwide Distributors:

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