SURFACE MOUNT SILICON DUAL, ISOLATED SCHOTTKY DIODE







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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMLSH-4 are two individual, electrically isolated 40 Volt Schottky diodes in a space saving SOT-563 surface mount package. This device has been designed for applications requiring fast switching speeds and a low forward voltage drop.

MARKING CODES: C4E or 4E

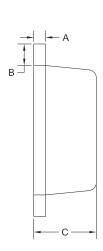
MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	40	V
Continuous Forward Current	I _F	200	mA
Peak Repetitive Forward Current	I _{FRM}	350	mA
Peak Forward Surge Current, tp=10ms	I _{FSM}	750	mA
Power Dissipation	P_{D}	250	mW
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +150	°C
Thermal Resistance	ΘιΔ	500	°C/W

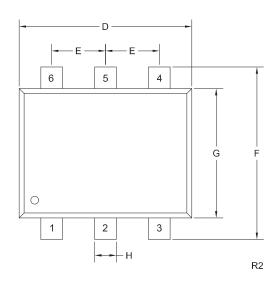
		5A			
ELECTRICAL	CHARACTERISTICS PER DIODE: (T	_ ∠=25°C unl	ess otherwise i	noted)	
SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I_{R}	V _R =25V		90	500	nA
I_{R}	V _R =25V, T _A =100°C		25	100	μΑ
BV_R	I _R =100μA	40	50		V
٧ _F	I _F =2.0mA		0.29	0.33	V
V_{F}	I _F =15mA		0.37	0.42	V
٧ _F	I _F =100mA		0.51	0.80	V
٧ _F	I _F =200mA		0.65	1.0	V
CJ	V _R =1.0V, f=1.0MHz		7.0		pF
t _{rr}	$I_F = I_R = 10$ mA, $I_{rr} = 1.0$ mA, $R_L = 100$ Ω			5.0	ns

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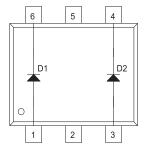


SOT-563 CASE - MECHANICAL OUTLINE





PIN CONFIGURATION



DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	MIN	MAX	MIN	MAX
Α	0.0027	0.007	0.07	0.18
В	0.008		0.20	
С	0.017	0.024	0.45	0.60
D	0.059	0.067	1.50	1.70
Е	0.020		0.50	
F	0.059	0.067	1.50	1.70
G	0.043	0.051	1.10	1.30
Н	0.006	0.012	0.15	0.30
SOT-563 (REV: R2)				

LEAD CODE:

- 1) Anode D1
- 2) NC
- 3) Anode D2
- 4) Cathode D2
- 5) NC
- 6) Cathode D1

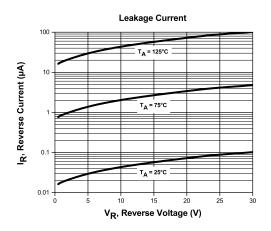
MARKING CODES: C4E or 4E

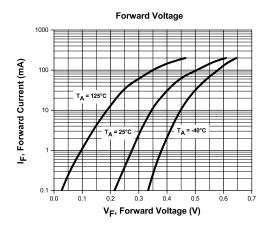
R5 (16-February 2016)

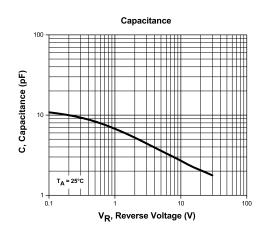


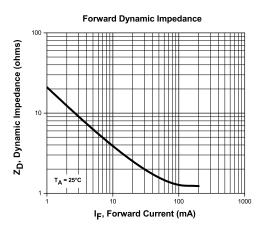


TYPICAL ELECTRICAL CHARACTERISTICS





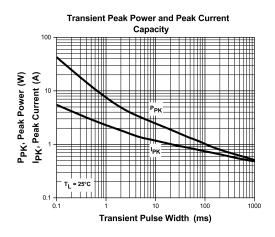


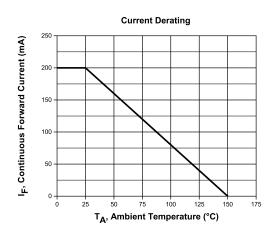


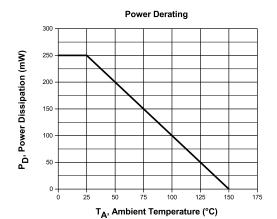




TYPICAL ELECTRICAL CHARACTERISTICS







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 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

CONTACT US

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PDN01063 2/06/17 N/A N/A

Please be advised that Central Semiconductor must immediately discontinue the product(s) listed in the attached PDN notice. We are unable to accept any further orders for these products **unless** we have available inventory on hand.

You may have purchased one or more of the products listed. Please do not hesitate to contact your local Central Semiconductor sales representative with any questions or needs you may have. Central regrets any inconvenience this may cause.

Sincerely,

Central Semiconductor Corp.



http://www.centralsemi.com

PDN01063 2/06/17 N/A N/A

Summary: All devices manufactured in the SOT-563 package, using the Option 2 Lead Frame, 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 various 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 Product Management Process. Any replacement product will be noted below. The effective date for placing the last purchase order will be six(6) months from the date of this notice and twelve(12) months from the notice date for final shipments; this may be extended if inventory is available.

Central Part Number	Replacement
CMLD2004G TR	N/A
CMLD4448 TR	N/A
CMLD6001 TR	N/A
CMLD6263 TR	N/A
CMLD6263S TR	N/A
CMLSH-4 TR	N/A
CMLZDA3V3 TR	N/A
CMLZDA6V2 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. Please email your requests to engineering@centralsemi.com.