CMLSH05-10DA

SURFACE MOUNT SILICON DUAL, ISOLATED OPPOSING SCHOTTKY DIODE





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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMLSH05-10DA consists of two (2) individual electrically isolated 100 Volt Schottky diodes with opposing polarity and packaged in the space saving SOT-563 surface mount case. This device has been designed for size constrained applications requiring high voltage Schottky diodes.

MARKING CODE: 10C

APPLICATIONS:

- · LED drive circuits
- DC-DC converter output rectification
- · Power management
- Reverse polarity protection

FEATURES:

- Smallest available 100V dual, isolated Schottky diode
- · High reverse voltage
- · Low forward voltage
- Low reverse leakage current

MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	100	V
Continuous Forward Current	ΙF	500	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	Θ_{JA}	500	°C/W

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

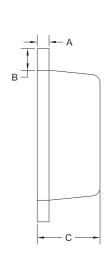
SYMBOL I _R	TEST CONDITIONS V _R =100V	MIN	TYP 0.1	MAX 5.0	UNITS μΑ
BV_R	I _R =200μA	100	110		V
V_{F}	I _F =500mA		0.82	0.85	V

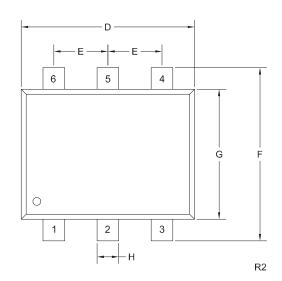
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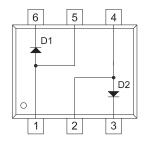


SOT-563 CASE - MECHANICAL OUTLINE





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		
E	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) Anode D2
- 3) Cathode D2
- 4) Anode D2
- 5) Anode D1
- 6) Cathode D1

MARKING CODE: 10C

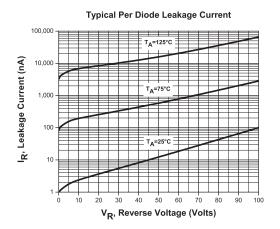
R4 (1-July 2015)

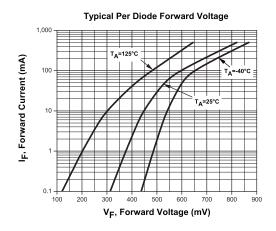
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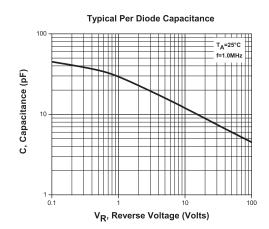


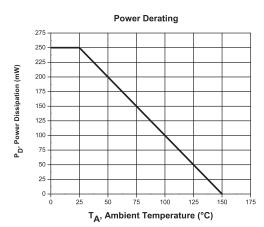


TYPICAL ELECTRICAL CHARACTERISTICS









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 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

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