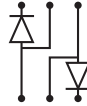


CMLSH05-10DA

SURFACE MOUNT SILICON
DUAL, ISOLATED OPPOSING
SCHOTTKY DIODE



SOT-563 CASE



www.centra-semi.com

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: ($T_A=25^{\circ}\text{C}$)

Peak Repetitive Reverse Voltage
Continuous Forward Current
Peak Forward Surge Current, $t_p=10\text{ms}$
Power Dissipation
Operating and Storage Junction Temperature
Thermal Resistance

SYMBOL

V_{RRM} 100
 I_F 500
 I_{FSM} 750
 P_D 250
 T_J, T_{stg} -65 to +150
 Θ_{JA} 500

UNITS

V
mA
mA
mW
 $^{\circ}\text{C}$
 $^{\circ}\text{C/W}$

ELECTRICAL CHARACTERISTICS PER DIODE: ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

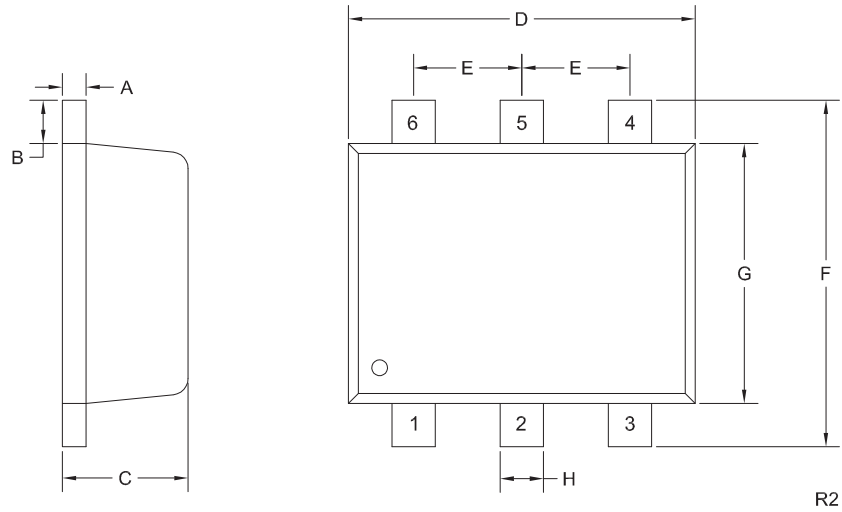
SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I_R	$V_R=100\text{V}$		0.1	5.0	μA
BV_R	$I_R=200\mu\text{A}$	100	110		V
V_F	$I_F=500\text{mA}$		0.82	0.85	V

CMLSH05-10DA

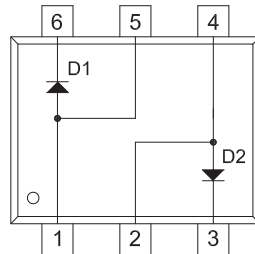
SURFACE MOUNT SILICON
DUAL, ISOLATED OPPOSING
SCHOTTKY DIODE



SOT-563 CASE - MECHANICAL OUTLINE



PIN CONFIGURATION



DIMENSIONS				
SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.0027	0.007	0.07	0.18
B	0.008		0.20	
C	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
H	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)

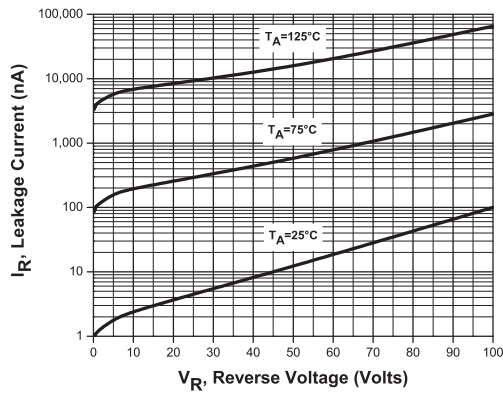
CMLSH05-10DA

SURFACE MOUNT SILICON
DUAL, ISOLATED OPPOSING
SCHOTTKY DIODE

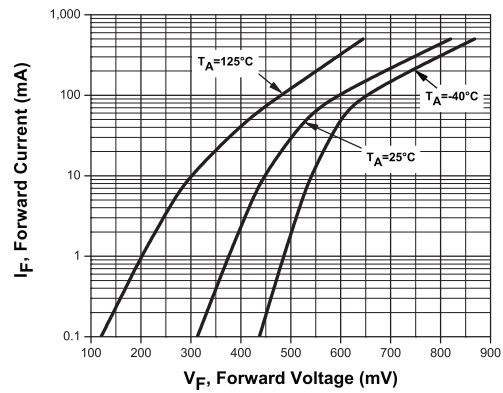


TYPICAL ELECTRICAL CHARACTERISTICS

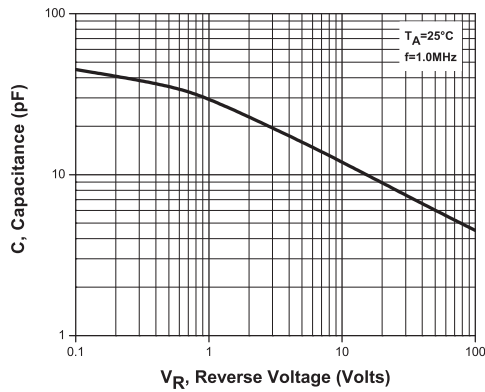
Typical Per Diode Leakage Current



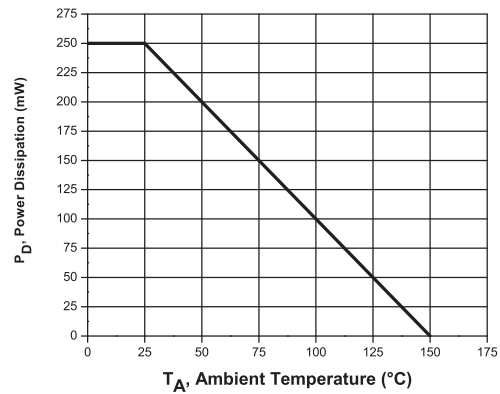
Typical Per Diode Forward Voltage



Typical Per Diode Capacitance



Power Derating



R4 (1-July 2015)

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.centrasemi.com

Worldwide Field Representatives:
www.centrasemi.com/wwreps

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www.centrasemi.com/wwdistributors

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