

CMLSH05-10DA

SURFACE MOUNT SILICON  
DUAL, ISOLATED OPPOSING  
SCHOTTKY DIODE

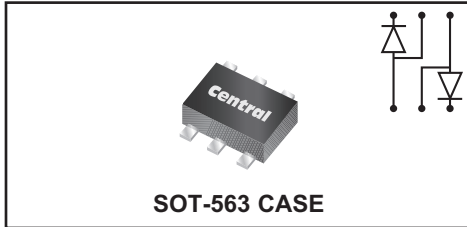


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**DESCRIPTION:**

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**



SOT-563 CASE

**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		UNITS
$V_{RRM}$	100	V
$I_F$	500	mA
$I_{FSM}$	750	mA
$P_D$	250	mW
$T_J, T_{stg}$	-65 to +150	$^\circ\text{C}$
$\theta_{JA}$	500	$^\circ\text{C/W}$

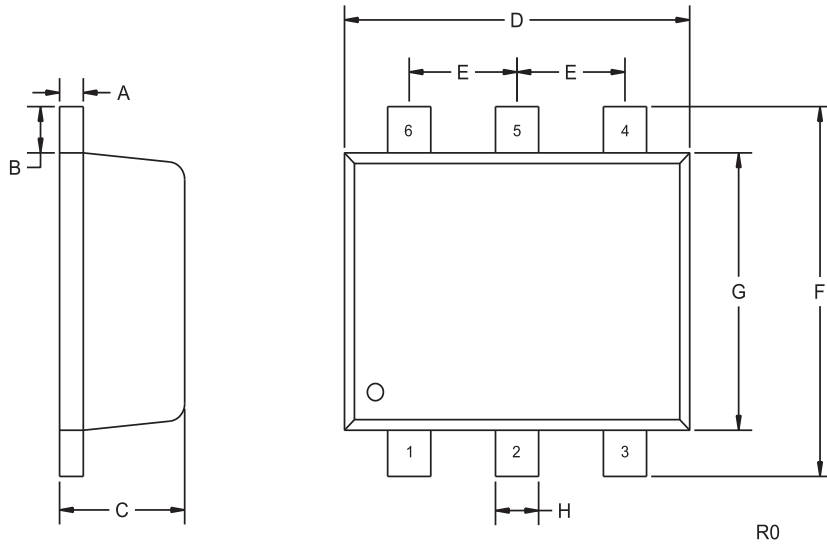
**ELECTRICAL CHARACTERISTICS PER DIODE:** ( $T_A=25^\circ\text{C}$  unless otherwise noted)

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

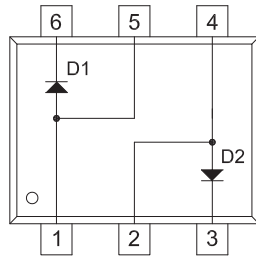
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**SOT-563 CASE - MECHANICAL OUTLINE**



**PIN CONFIGURATION**



SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.004	0.007	0.10	0.18
B	0.008		0.20	
C	0.022	0.024	0.56	0.60
D	0.059	0.067	1.50	1.70
E	0.020		0.50	
F	0.061	0.067	1.55	1.70
G	0.047		1.20	
H	0.006	0.012	0.15	0.30

SOT-563 (REV: R0)

**LEAD CODE:**

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

**MARKING CODE: 10C**

R2 (21-December 2012)

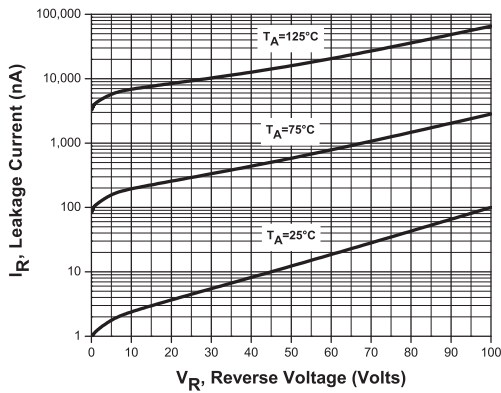
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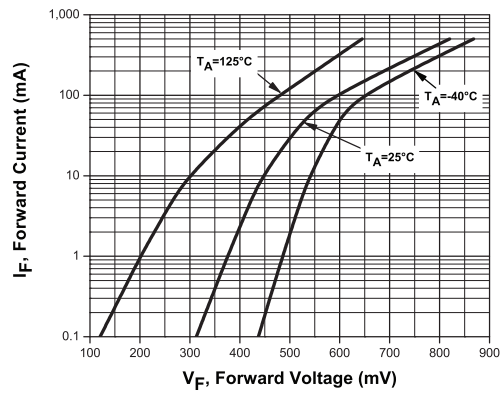


### TYPICAL ELECTRICAL CHARACTERISTICS

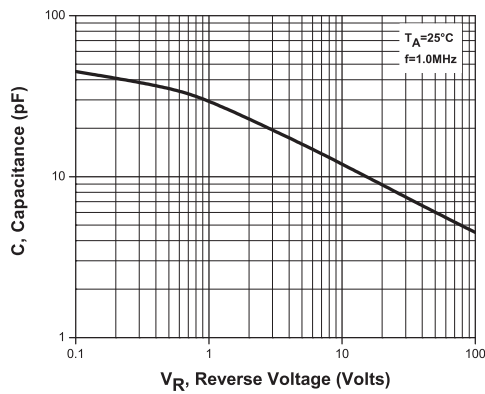
Typical Per Diode Leakage Current



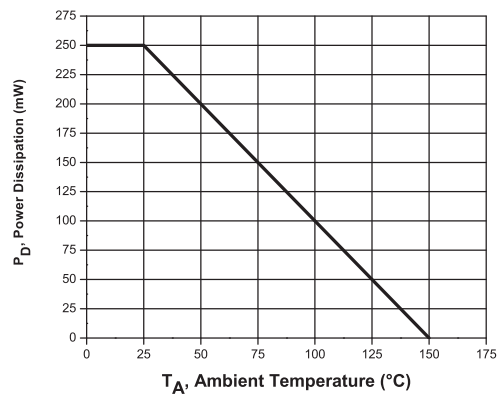
Typical Per Diode Forward Voltage



Typical Per Diode Capacitance



Power Derating



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