

CMLSH05-10DA

**SURFACE MOUNT SILICON
DUAL, ISOLATED OPPOSING
SCHOTTKY DIODE**

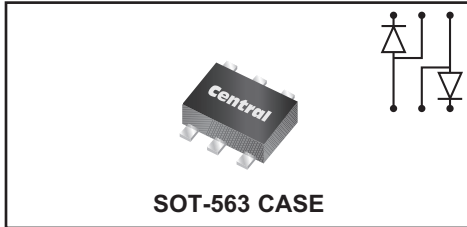


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DESCRIPTION:

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	$^\circ\text{C}$
θ_{JA}	500	$^\circ\text{C/W}$

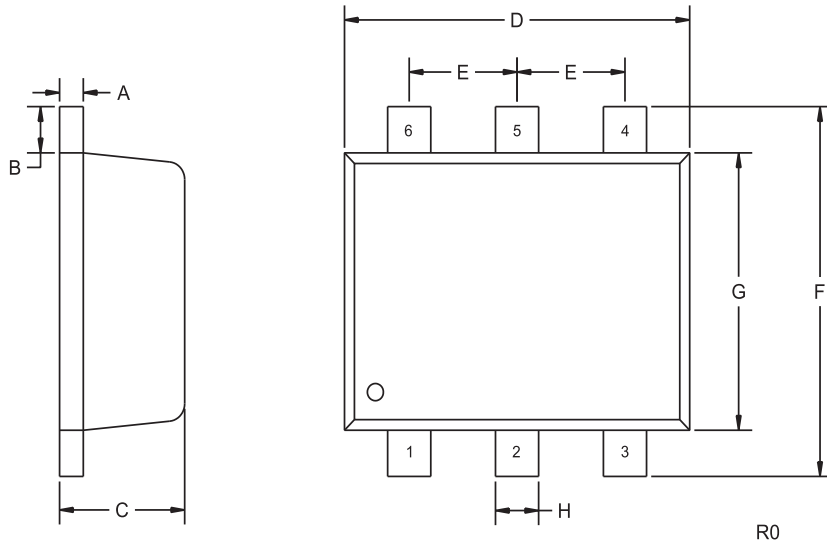
ELECTRICAL CHARACTERISTICS PER DIODE: ($T_A=25^\circ\text{C}$ unless otherwise noted)

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

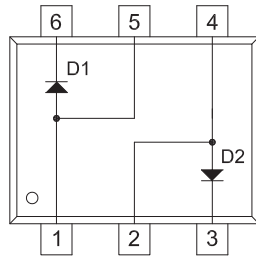
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SOT-563 CASE - MECHANICAL OUTLINE



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)

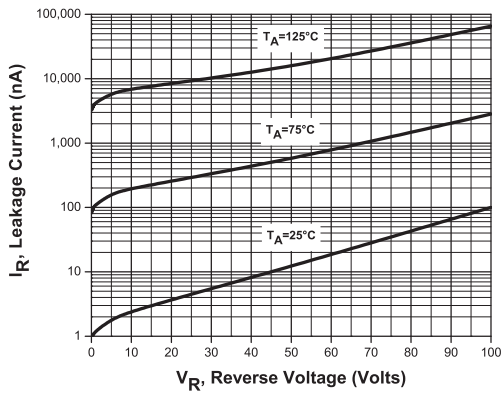
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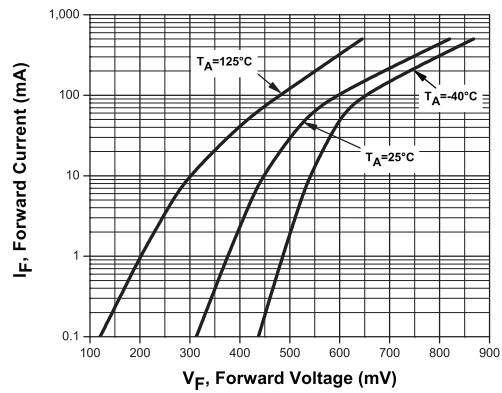


TYPICAL ELECTRICAL CHARACTERISTICS

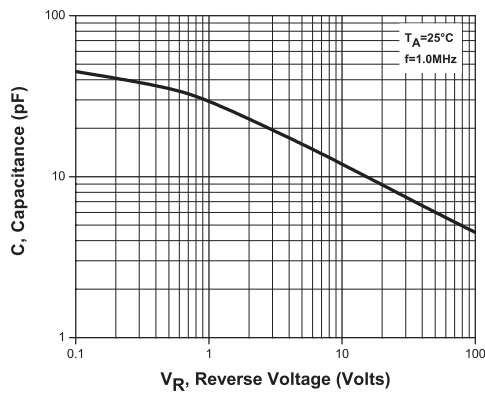
Typical Per Diode Leakage Current



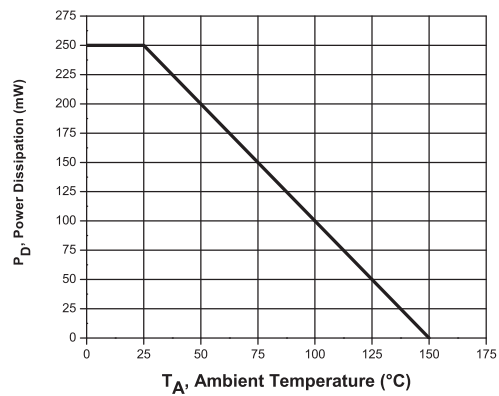
Typical Per Diode Forward Voltage



Typical Per Diode Capacitance



Power Derating



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