

Central™
Semiconductor Corp.

FEATURES:

- Four Monolithic Isolated diodes.
- Fast Switching.
- Matched V_F

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMEDA-6i is an isolated, monolithic silicon quad switching diode array and epoxy molded in an SOT-28 surface mount package. This SUPERmini™ device has been designed for use in computers and peripheral equipment requiring high speed switching with closely matched V_F .

MARKING CODE: CDA1

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

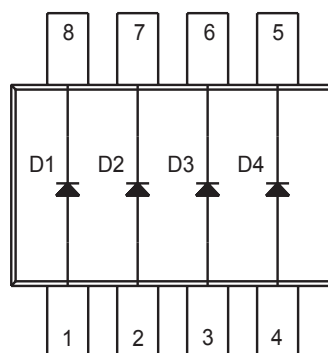
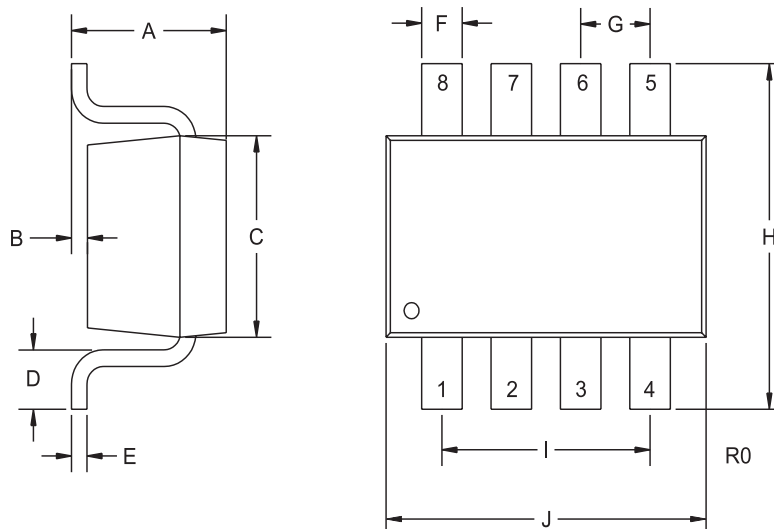
Continuous Reverse Voltage
Continuous Forward Current
Power Dissipation
Operating and Storage
Junction Temperature
Thermal Resistance

SYMBOL		UNITS
V_R	60	V
I_F	250	mA
P_D	350	mW
T_J, T_{stg}	-65 to +150	$^{\circ}\text{C}$
Θ_{JA}	357	$^{\circ}\text{C/W}$

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

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I_R	$V_R=50\text{V}$		25	nA
BV_R	$I_R=100\mu\text{A}$	60		V
V_F	$I_F=10\text{mA}$		1.0	V
C_T	$V_R=0, f=1\text{ MHz}$		3.0	pF
t_{rr}	$I_F=I_R=10\text{mA}$, Rec. to 1.0mA		100	ns
MATCHED V_F RANGE				
ΔV_F	$I_F=1.0\text{mA}$		30	mV

SOT-28 CASE - MECHANICAL OUTLINE



SYMBOL	DIMENSIONS			
	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.035	0.057	0.90	1.45
B	0.000	0.006	0.00	0.15
C	0.059	0.069	1.50	1.75
D	0.014	0.022	0.35	0.55
E	0.004	0.008	0.09	0.20
F	0.009	0.015	0.22	0.38
G	0.026		0.65	
H	0.102	0.118	2.60	3.00
I	0.077		1.95	
J	0.110	0.118	2.80	3.00

SOT-28 (REV: R0)

LEAD CODE:

- 1) Anode 1
- 2) Anode 2
- 3) Anode 3
- 4) Anode 4
- 5) Cathode 4
- 6) Cathode 3
- 7) Cathode 2
- 8) Cathode 1

MARKING CODE: CDA1

R0 (18-February 2003)