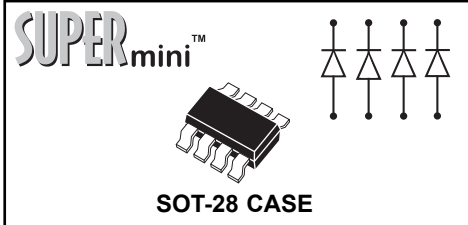


**CMEDA-6i**  
**SURFACE MOUNT**  
**SUPERmini™**  
**MONOLITHIC, ISOLATED SILICON**  
**QUAD SWITCHING DIODE ARRAY**



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

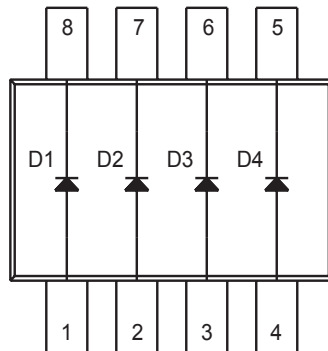
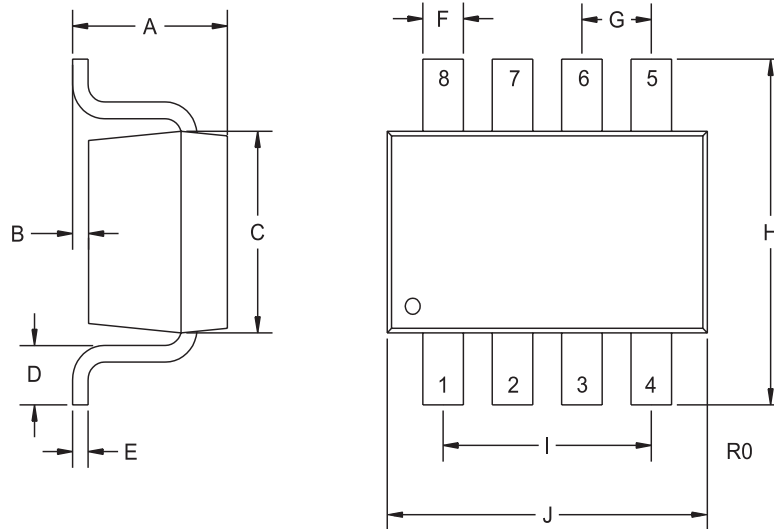
Continuous Reverse Voltage  
 Continuous Forward Current  
 Power Dissipation  
 Operating and Storage  
 Junction Temperature  
 Thermal Resistance

SYMBOL		UNITS
$V_R$	60	V
$I_F$	250	mA
$P_D$	350	mW
$T_J, T_{stg}$	-65 to +150	$^\circ\text{C}$
$\theta_{JA}$	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
$t_{rr}$	$I_F=I_R=10\text{mA, Rec. to }1.0\text{mA}$		100	ns
<b>MATCHED <math>V_F</math> RANGE</b>				
$\Delta V_F$	$I_F=1.0\text{mA}$		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**