

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



[www.centrasemi.com](http://www.centrasemi.com)



**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  $V_F$ .

**FEATURES:**

- Four Monolithic Isolated Diodes.
- Fast Switching.
- 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**

$V_R$  60  
 $I_F$  250  
 $P_D$  350  
 $T_J, T_{stg}$  -65 to +150  
 $\theta_{JA}$  357

**UNITS**

V  
 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	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
$C_T$	$V_R=0, f=1.0\text{MHz}$		3.0	pF
$t_{rr}$	$I_F=I_R=10\text{mA, Rec. to } 1.0\text{mA}$		100	ns

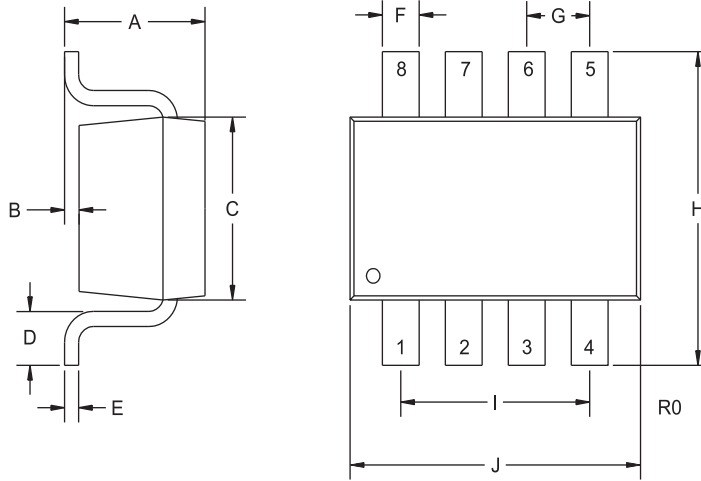
**MATCHED  $V_F$  RANGE**

$\Delta V_F$	$I_F=1.0\text{mA}$		30	mV
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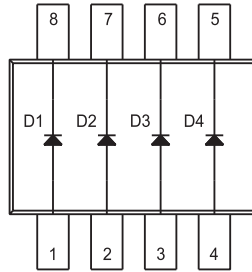


**SOT-28 CASE - MECHANICAL OUTLINE**



**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



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)

**MARKING CODE: CDA1**

R1 (8-January 2010)