

## CMKD6000

### 75V, 250mA Dual Pair In Series Ultra Low Leakage Diodes in SOT-363 package



SOT-363

Central Semiconductor's CMKD6000 consists of two pair of electrically isolated, series configured ultra low leakage switching diodes. This device, packaged in the SOT-363, offers a high density energy efficient solution for a variety of portable battery powered applications.

#### Features:

- Low  $I_R$  (400pA @ 75V)
- Low capacitance (2.0pF)
- Forward current ( $I_F = 250\text{mA}$ )

#### Applications:

- Hand-held medical devices
- Battery operated equipment
- High speed data line steering
- Voltage multiplier circuits

#### Benefits:

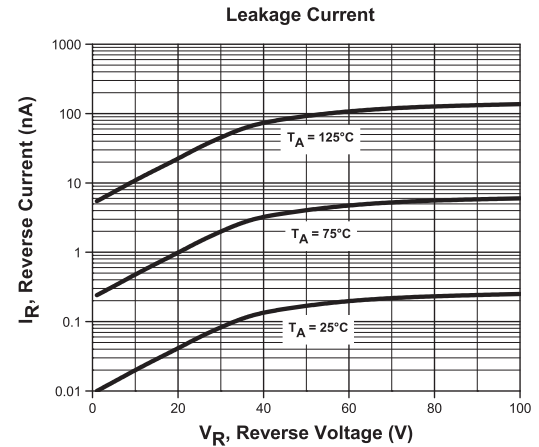
- Device configuration flexibility
- High density
- Reverse leakage optimized for logic levels
- Four diodes in the SOT-363 package



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#### Typical Electrical Characteristics



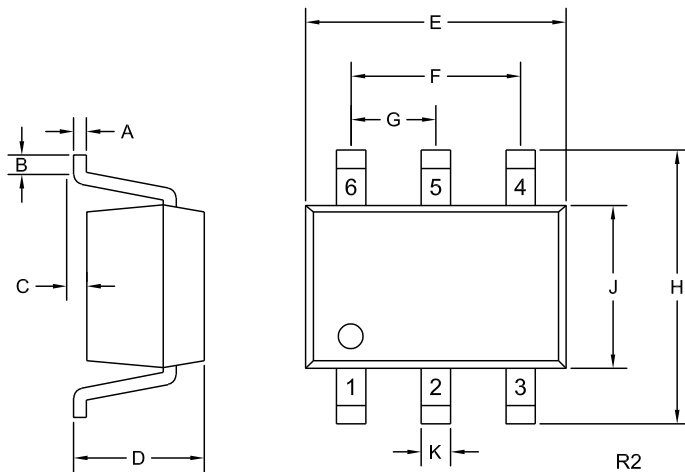
#### Samples and Literature



To order samples of this device visit:  
[www.centrasemi.com/info/CMKD6000](http://www.centrasemi.com/info/CMKD6000)

Electrical Characteristics ( $T_A = 25^\circ\text{C}$ unless otherwise noted)									Thermal Characteristics			
$V_{RRM}$	$I_F$	$V_F$		@ $I_F$	$I_R$		@ $V_R$	$t_{rr}$	$C_T$	$P_D$	$T_J, T_{stg}$	$\Theta_{JA}$
(V) MAX	(mA) MAX	(V) TYP	(V) MAX	(mA)	(pA) TYP	(pA) MAX	(V)	( $\mu\text{s}$ ) MAX	(pF) MAX	(mW) MAX	( $^\circ\text{C}$ ) MAX	( $^\circ\text{C}/\text{W}$ ) MAX
100	250	0.77 0.85 0.96	0.85 0.95 1.1	1.0 10 100	400	500	75	3.0	2.0	250	-65 to +150	500

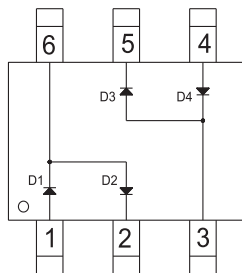
## Mechanical Drawing - SOT-363



SYMBOL	DIMENSIONS			
	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.004	0.010	0.10	0.25
B	0.005	-	0.12	-
C	0.000	0.004	0.00	0.10
D	0.031	0.043	0.80	1.10
E	0.071	0.087	1.80	2.20
F	0.051		1.30	
G	0.026		0.65	
H	0.075	0.091	1.90	2.30
J	0.043	0.055	1.10	1.40
K	0.006	0.012	0.15	0.30

SOT-363 (REV: R2)

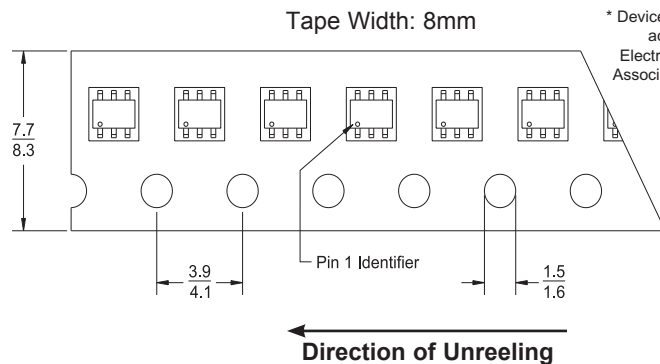
## Lead Code



- 1) Anode D1
- 2) Cathode D2
- 3) Anode D3, Cathode D4
- 4) Anode D4
- 5) Cathode D3
- 6) Cathode D1, Anode D2

**MARKING CODE:**  
CK0

## Tape Dimensions and Orientation (Dimensions in mm)



\* Devices are taped in accordance with Electronic Industries Association Standard EIA-481-1-A

## Packaging Base / Ordering Information

Reel Size	Quantity	Central Item No.
7"	3,000	CMKD6000 TR

## Reel Packing Information

Reel Size	Reels per Box (Maximum)	Parts per Box (Maximum)	Box Dimensions		Shipping Weight (Max.)	
			INCH	CM	LB	KG
7"	9	27,000	9x9x5	23x23x13	3	2
	18	54,000	9x9x9	23x23x23	6	3
	40	120,000	21x9x9	53x23x23	13	6
	108	324,000	27x9x17	69x23x43	34	16

Sample devices available upon request. To order samples of this device visit: [www.centrasemi.com/info/CMKD6000](http://www.centrasemi.com/info/CMKD6000)



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