SURFACE MOUNT SILICON DUAL PAIR, IN SERIES ULTRA LOW LEAKAGE SWITCHING DIODE



FEATURES:

• Low Total Conduction Losses



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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMKD6000 consists of two pair of electrically isolated, series configured Ultra Low Leakage Switching Diodes manufactured by the epitaxial planar process, epoxy molded in an SOT-363 surface mount package.

MARKING CODE: CK0

APPLICATIONS:

- Handheld Medical Devices
- Battery Operated Equipment
- High Speed Data Line Steering

MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Continuous Reverse Voltage	V_{R}	75	V
Peak Repetitive Reverse Voltage	V_{RRM}	100	V
Continuous Forward Current	ΙF	250	mA
Peak Repetitive Forward Current	I _{FRM}	500	mA
Peak Forward Surge Current, tp=1.0µs	I _{FSM}	4.0	Α
Peak Forward Surge Current, tp=1.0s	IFSM	1.0	Α
Power Dissipation	P_{D}	250	mW
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +150	°C
Thermal Resistance	ΘιΔ	500	°C/W

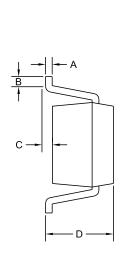
$\textbf{ELECTRICAL CHARACTERISTICS PER DIODE:} \ (T_{\mbox{\scriptsize A}} = 25^{\circ}\mbox{C unless otherwise noted})$

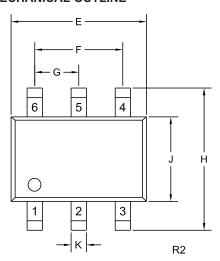
SYMBOL I _R	TEST CONDITIONS V _R =75V	MIN	TYP 35	MAX 500	UNITS pA
I_{R}	V _R =5.0, T _A =50°C		10	100	pA
BV_R	I _R =100μA	100	120		V
V_{F}	I _F =1.0mA		0.77	0.85	V
V_{F}	I _F =10mA		0.85	0.95	V
V_{F}	I _F =100mA		0.96	1.1	V
C_{J}	$V_R=0$, f=1.0MHz		1.7	2.0	pF
t _{rr}	$I_R = I_F = 10 \text{mA}, I_{rr} = 1.0 \text{mA}, R_I = 100 \Omega$			3.0	μs

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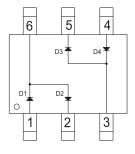


SOT-363 CASE - MECHANICAL OUTLINE





PIN CONFIGURATION



DIMENSIONS							
	INCHES		MILLIMETERS				
SYMBOL	MIN	MAX	MIN	MAX			
Α	0.004	0.010	0.10	0.25			
В	0.005	-	0.12	-			
С	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				
Н	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

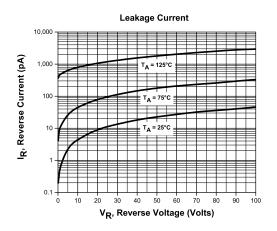
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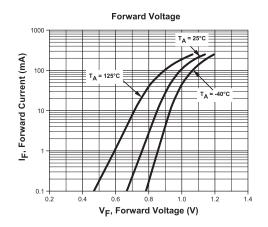
R2 (26-February 2016)

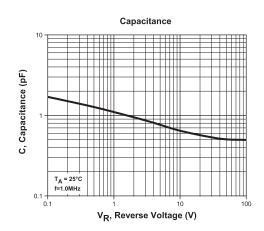
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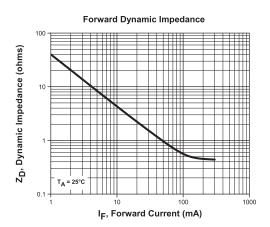


TYPICAL ELECTRICAL CHARACTERISTICS





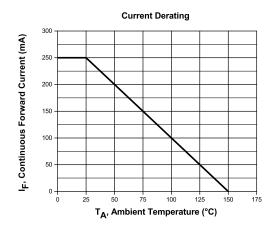


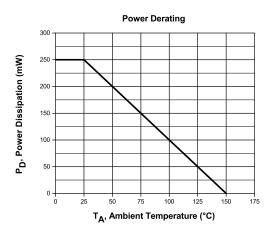


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TYPICAL ELECTRICAL CHARACTERISTICS





OUTSTANDING SUPPORT AND SUPERIOR SERVICES



PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- · Inventory bonding
- · Consolidated shipping options

- · Custom bar coding for shipments
- · Custom product packing

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free guick ship samples (2nd day air)
- Online technical data and parametric search
- SPICE models
- · Custom electrical curves
- · Environmental regulation compliance
- · Customer specific screening
- · Up-screening capabilities

- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- · Application and design sample kits
- Custom product and package development

REQUESTING PRODUCT PLATING

- 1. If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
- 2. If requesting Lead (Pb) Free plated devices, add the suffix "PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

CONTACT US

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