

SOT-363 CASE



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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMKD7000 consists of two pair of electrically isolated, series configured ultra-high speed switching diodes in an ULTRAmini™ SOT-363 surface mount package, designed for ESD protection and high speed switching applications.

MARKING CODE: K00

MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V _{RRM}	100	V
Average Forward Current	ΙO	200	mA
Peak Forward Current	^I FM	500	mA
Power Dissipation	PD	250	mW
Operating and Storage Junction Temperature	TJ, Tstg	-65 to +150	°C
Thermal Resistance	ΘJΑ	500	°C/W

ELECTRICAL CHARACTERISTICS PER DIODE: (T_A=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
IR	V _R =50V			300	nA
I _R	V _R =50V, T _A =125°C			100	μA
I _R	V _R =100V			500	nA
BVR	I _R =100μΑ	100			V
V _F	I _F =1.0mA	0.55		0.70	V
VF	I _F =10mA	0.67		0.82	V
VF	IF=100mA	0.75		1.10	V
CT	V _R =0, f=1.0MHz		1.5	2.6	pF
t _{rr}	$I_R=I_F=10mA$, $R_L=100\Omega$, Rec. to 1.0mA		2.0	4.0	ns

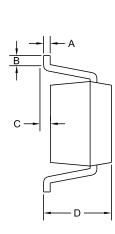
R4 (13-January 2010)

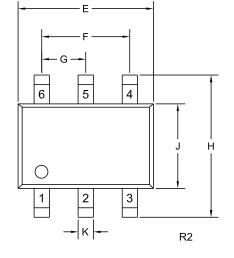




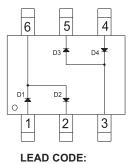
SURFACE MOUNT DUAL PAIR, IN-SERIES ULTRA-HIGH SPEED SILICON SWITCHING DIODES

SOT-363 CASE - MECHANICAL OUTLINE





PIN CONFIGURATION



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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DIMENSIONS							
	INCHES		MILLIMETERS				
SYMBOL	MIN	MAX	MIN	MAX			
А	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			
Е	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)							

R4 (13-January 2010)

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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

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

· Custom product packing

Custom bar coding for shipments

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

REQUESTING PRODUCT PLATING

- If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when 1. 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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