CMKD7000E

SURFACE MOUNT
DUAL PAIR OF
SERIES CONFIGURED
ULTRA-HIGH SPEED SILICON
SWITCHING DIODES





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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMKD7000E is an enhanced version of the CMKD7000. It 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: K0E

MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
♦ Peak Repetitive Reverse Voltage	V_{RRM}	120	V
Average Forward Current	IO	200	mA
Peak Forward Current	I_{FM}	500	mA
Power Dissipation	P_{D}	250	mW
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +150	°C
Thermal Resistance	Θ_{JA}	500	°C/W

ELEC	TRICAL CHARACTERISTICS PER DIC	S PER DIODE: (T _A =25°C unless otherwise noted)			
SYMB		MIN	TYP	MAX	UNITS
I_{R}	V _R =50V			300	nA
I_{R}	V _R =50V (T _A =125°C)			100	μΑ
I_{R}	V _R =100V			500	nA
♦ BV _R	I _R =100μA	120	150		V
♦ V _F	I _F =1.0mA	0.55	0.59	0.65	V
♦ V _F	I _F =10mA	0.67	0.72	0.77	V
♦ V _F	I _F =100mA	0.85	0.91	1.0	V
C_T	$V_R=0$, f=1.0MHz		1.5	2.6	pF
t _{rr}	t _{rr} I _R =I _F =10mA, R _L =100Ω, Rec. to 1.0mA		2.0	4.0	ns

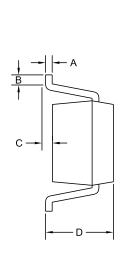
♦ Enhanced specification.

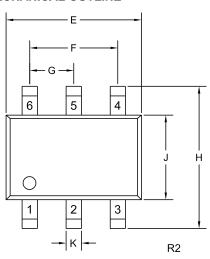
CMKD7000E

SURFACE MOUNT **DUAL PAIR OF SERIES CONFIGURED ULTRA-HIGH SPEED SILICON SWITCHING DIODES**

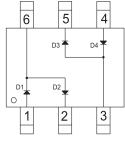


SOT-363 CASE - MECHANICAL OUTLINE





PIN CONFIGURATION



_	_	_	_	_	_	

- 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: K0E

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	
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)

R0 (2-December 2009)

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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