imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





ENHANCED SPECIFICATION SURFACE MOUNT HIGH SPEED SILICON SWITCHING DIODE





www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMPD914E is an Enhanced version of the CMPD914 High Speed Switching Diode in a SOT-23 surface mount package, designed for high speed applications.

MARKING CODE: C5DE

FEATURED ENHANCED SPECIFICATIONS:

- ♦ BV_R from 100V min to 120V min. (150V TYP)
- ♦ V_F from 1.0V max to 0.85V max. (0.72V TYP)

MAXIMUM	RATINGS: (T _A =25°C)	SYMBOL			UNITS
Continuous	s Reverse Voltage	V _R	7	5	V
Peak Repetitive Reverse Voltage		V _{RRM}	120		v
Continuous Forward Current		١ _F	250		mA
Peak Repetitive Forward Current		IFRM	250		mA
Peak Forward Surge Current, tp=1.0µs		IFSM	4000		mA
Peak Forward Surge Current, tp=1.0ms		IFSM	2000		mA
Peak Forward Surge Current, tp=1.0s		IFSM	1000		mA
Power Dissipation		PD	350		mW
Operating and Storage Junction Temperature		т _Ј , т _{stg}	-65 to +150		°C
Thermal Resistance		Θ_{JA}	357		°C/W
ELECTRIC	CAL CHARACTERISTICS: (TA=25°C	unless otherwise no	oted)		
SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
IR	V _R =20V			25	nA
I _R	V _R =75V			5.0	μA

120 ♦ BV_R I_R=100μA 150 I_F=10mA 0.720 0.850 ٧F V_{F} I_F=100mA 0.915 0.970 CT V_R=0, f=1.0MHz 2.0 $I_{\mbox{\scriptsize R}} = I_{\mbox{\scriptsize F}} = 10 \mbox{\scriptsize mA}, \ \mbox{\scriptsize R}_{\mbox{\scriptsize L}} = 100 \mbox{\scriptsize \Omega}, \ \mbox{\scriptsize Rec.} \ \mbox{to} \ \ 1.0 \ \mbox{\scriptsize mA}$ 4.0 t_{rr}

Enhanced specification.

♦ ♦ Additional Enhanced specification.

R3 (25-January 2010)

V

V

V

pF

ns

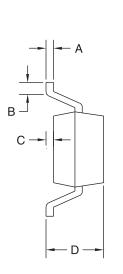


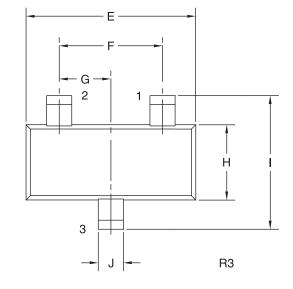
ENHANCED SPECIFICATION

Central semiconductor Corp.

SURFACE MOUNT HIGH SPEED SILICON SWITCHING DIODE

SOT-23 CASE - MECHANICAL OUTLINE





PIN CONFIGURATION

LEAD CODE: 1) Anode

2) No Connection3) Cathode

MARKING CODE: C5DE

DIMENSIONS							
	INCHES		MILLIMETERS				
SYMBOL	MIN	MAX	MIN	MAX			
А	0.003	0.007	0.08	0.18			
В	0.006	-	0.15	-			
С	-	0.005	-	0.13			
D	0.035	0.043	0.89	1.09			
E	0.110	0.120	2.80	3.05			
F	0.075		1.90				
G	0.037		0.95				
Н	0.047	0.055	1.19	1.40			
	0.083	0.098	2.10	2.49			
J	0.014	0.020	0.35	0.50			

SOT-23 (REV: R3)

R3 (25-January 2010)

www.centralsemi.com

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

Corporate Headquarters & Customer Support Team

Central Semiconductor Corp. 145 Adams Avenue Hauppauge, NY 11788 USA Main Tel: (631) 435-1110 Main Fax: (631) 435-1824 Support Team Fax: (631) 435-3388 www.centralsemi.com

Worldwide Field Representatives: www.centralsemi.com/wwreps

Worldwide Distributors: www.centralsemi.com/wwdistributors

For the latest version of Central Semiconductor's LIMITATIONS AND DAMAGES DISCLAIMER. which is part of Central's Standard Terms and Conditions of sale, visit: www.centralsemi.com/terms

