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Central Semiconductor Corp CMPD914E TR

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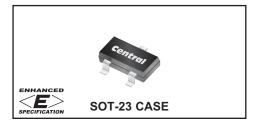
Distributor of Central Semiconductor Corp: Excellent Integrated System Limited Datasheet of CMPD914E TR - DIODE GEN PURP 75V 250MA SOT23

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

CMPD914E

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 Reverse Voltage	v_R	75	V
♦ Peak Repetitive Reverse Voltage	V_{RRM}	120	V
Continuous Forward Current	I _F	250	mA
Peak Repetitive Forward Current	I _{FRM}	250	mA
Peak Forward Surge Current, tp=1.0µs	I _{FSM}	4000	mA
Peak Forward Surge Current, tp=1.0ms	I _{FSM}	2000	mA
Peak Forward Surge Current, tp=1.0s	I _{FSM}	1000	mA
Power Dissipation	P_{D}	350	mW
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +150	°C
Thermal Resistance	$\Theta_{\sf JA}$	357	°C/W

		CAL CHARACTERISTICS: (T _A =25°C unles TEST CONDITIONS	s otherwise MIN	e noted) TYP	MAX	UNITS
	I_{R}	V _R =20V			25	nA
	I_{R}	V _R =75V			5.0	μΑ
•	вv _R	I _R =100μA	120	150		V
♦	V_{F}	I _F =10mA		0.720	0.850	V
•	V_{F}	I _F =100mA		0.915	0.970	V
	C_{T}	V _R =0, f=1.0MHz			2.0	pF
	t _{rr}	$I_R=I_F=10$ mA, $R_L=100\Omega$, Rec. to 1.0 mA			4.0	ns

- ♦ Enhanced specification.
- ♦ ♦ Additional Enhanced specification.

R3 (25-January 2010)

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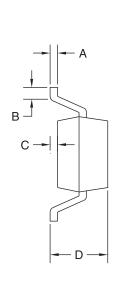
CMPD914E

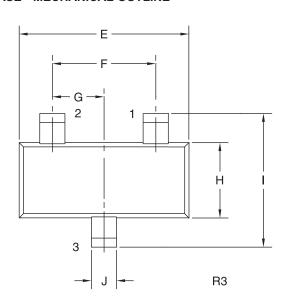
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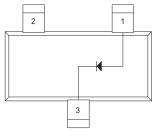


SOT-23 CASE - MECHANICAL OUTLINE





PIN CONFIGURATION



LEAD CODE:

- 1) Anode
- 2) No Connection
- 3) Cathode

MARKING CODE: C5DE

DIMENSIONS							
	INCHES		MILLIMETERS				
SYMBOL	MIN	MAX	MIN	MAX			
Α	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)

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- · Custom bar coding for shipments
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- · 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

CONTACT US

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