

SURFACE MOUNT HIGH CURRENT SILICON SWITCHING DIODE



The following configurations are available:

CMPD1001 CMPD1001A CMPD1001S	SINGLE DUAL, COMMON ANODE DUAL, IN SERIES	MARKING C MARKING C MARKING C	ODE: L22	
MAXIMUM RATI	<b>NGS:</b> (T <sub>A</sub> =25°C)	SYMBOL		UNITS
Continuous Reverse Voltage		V <sub>R</sub>	90	V
Continuous Forward Current		١ <sub>F</sub>	250	mA
Peak Repetitive Forward Current		IFRM	600	mA
Peak Repetitive Reverse Current		IRRM	600	mA
Peak Forward Surge Current, tp=1.0µs		IFSM	6.0	А
Peak Forward Surge Current, tp=1.0s		IFSM	1.0	А
Power Dissipation		PD	350	mW
Operating and St	orage Junction Temperature	TJ, T <sub>stg</sub>	-65 to +150	°C
Thermal Resistar	ice	$\Theta_{JA}$	357	°C/W

# ELECTRICAL CHARACTERISTICS PER DIODE: (T<sub>A</sub>=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I <sub>R</sub>	V <sub>R</sub> =90V		100	nA
I <sub>R</sub>	V <sub>R</sub> =90V, T <sub>A</sub> =150°C		100	μΑ
BVR	I <sub>R</sub> =100μA	90		V
V <sub>F</sub>	I <sub>F</sub> =10mA		0.75	V
V <sub>F</sub>	I <sub>F</sub> =50mA		0.84	V
V <sub>F</sub>	I <sub>F</sub> =100mA		0.90	V
V <sub>F</sub>	I <sub>F</sub> =200mA		1.00	V
V <sub>F</sub>	I <sub>F</sub> =400mA		1.25	V
CT	V <sub>R</sub> =0, f=1.0MHz		35	pF
t <sub>rr</sub>	$I_R=I_F=30$ mA, Rec. to 3.0mA, R <sub>L</sub> =100 $\Omega$		50	ns



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## DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMPD1001 series types are silicon switching diodes manufactured by the epitaxial planar process, designed for applications requiring high current capability.

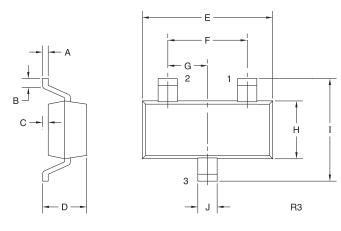
R6 (25-January 2010)





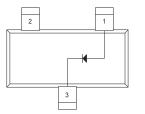
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### SOT-23 CASE - MECHANICAL OUTLINE



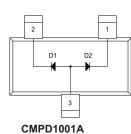
DIMENSIONS							
	INCHES		MILLIMETERS				
SYMBOL	MIN	MAX	MIN	MAX			
А	0.003	0.007	0.08	0.18			
В	0.006	-	0.15	-			
С	-	0.005	-	0.13			
D	0.035	0.043	0.89	1.09			
E	0.110	0.120	2.80	3.05			
F	0.075		1.90				
G	0.037		0.95				
Н	0.047	0.055	1.19	1.40			
	0.083	0.098	2.10	2.49			
J	0.014	0.020	0.35	0.50			
SOT-23 (REV: R3)							

**PIN CONFIGURATIONS** 



CMPD1001 LEAD CODE: 1) Anode 2) No Connection 3) Cathode

MARKING CODE: L20



LEAD CODE: 1) Cathode D2 2) Cathode D1 3) Anode D1, Anode D2

MARKING CODE: L22

> CMPD1001S LEAD CODE: 1) Anode D2 2) Cathode D1 3) Anode D1, Cathode D2

MARKING CODE: L21

R6 (25-January 2010)

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- 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

### 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

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