

SURFACE MOUNT HIGH CURRENT SILICON SWITCHING DIODE



The following configurations are available:

CMPD1001 CMPD1001A CMPD1001S	SINGLE DUAL, COMMON ANODE DUAL, IN SERIES	MARKING CO MARKING CO MARKING CO		
MAXIMUM RATI	NGS: (T _A =25°C)	SYMBOL		UNITS
Continuous Reve	rse Voltage	V _R	90	V
Continuous Forward Current		١ _F	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 Ste	prage Junction Temperature	TJ, T _{stg}	-65 to +150	°C
Thermal Resistan	се	Θ_{JA}	357	°C/W

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

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I _R	V _R =90V		100	nA
I _R	V _R =90V, T _A =150°C		100	μΑ
BVR	I _R =100μA	90		V
V _F	I _F =10mA		0.75	V
V _F	I _F =50mA		0.84	V
VF	I _F =100mA		0.90	V
V _F	I _F =200mA		1.00	V
V _F	I _F =400mA		1.25	V
CT	V _R =0, f=1.0MHz		35	pF
t _{rr}	$I_R=I_F=30$ mA, Rec. to 3.0mA, R _L =100 Ω		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.

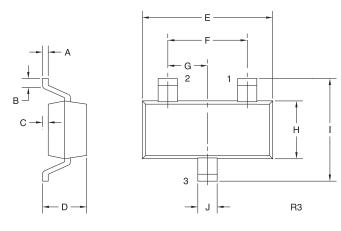
R6 (25-January 2010)





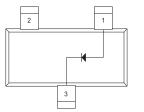
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SOT-23 CASE - MECHANICAL OUTLINE



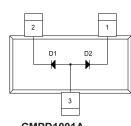
DIMENSIONS								
	INCHES		MILLIMETERS					
SYMBOL	MIN	MAX	MIN	MAX				
А	0.003	0.007	0.08	0.18				
В	0.006	-	0.15	-				
С	-	0.005	-	0.13				
D	0.035	0.043	0.89	1.09				
E	0.110	0.120	2.80	3.05				
F	0.075		1.90					
G	0.037		0.95					
Н	0.047	0.055	1.19	1.40				
	0.083	0.098	2.10	2.49				
J	0.014	0.020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

PIN CONFIGURATIONS



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

MARKING CODE: L20



CMPD1001A 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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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 quick 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

· Custom product packing

- PbSn plating options
- Package details
- Application notes
- · Application and design sample kits

Custom bar coding for shipments

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).
- 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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