



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!



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CMPD1001
 CMPD1001A
 CMPD1001S

**SURFACE MOUNT
 HIGH CURRENT
 SILICON SWITCHING DIODE**



www.centrasemi.com

DESCRIPTION:

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



SOT-23 CASE

The following configurations are available:

CMPD1001 SINGLE
 CMPD1001A DUAL, COMMON ANODE
 CMPD1001S DUAL, IN SERIES

MARKING CODE: L20
MARKING CODE: L22
MARKING CODE: L21

MAXIMUM RATINGS: (T_A=25°C)

Continuous Reverse Voltage
 Continuous Forward Current
 Peak Repetitive Forward Current
 Peak Repetitive Reverse Current
 Peak Forward Surge Current, tp=1.0µs
 Peak Forward Surge Current, tp=1.0s
 Power Dissipation
 Operating and Storage Junction Temperature
 Thermal Resistance

SYMBOL

V_R 90
 I_F 250
 I_{FRM} 600
 I_{RRM} 600
 I_{FSM} 6.0
 I_{FSM} 1.0
 P_D 350
 T_J, T_{stg} -65 to +150
 θ_{JA} 357

UNITS

V
 mA
 mA
 mA
 A
 A
 mW
 °C
 °C/W

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

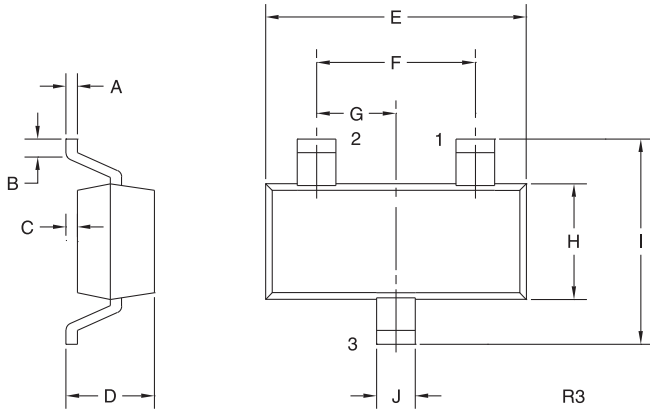
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I _R	V _R =90V		100	nA
I _R	V _R =90V, T _A =150°C		100	µA
BV _R	I _R =100µA	90		V
V _F	I _F =10mA		0.75	V
V _F	I _F =50mA		0.84	V
V _F	I _F =100mA		0.90	V
V _F	I _F =200mA		1.00	V
V _F	I _F =400mA		1.25	V
C _T	V _R =0, f=1.0MHz		35	pF
t _{rr}	I _R =I _F =30mA, Rec.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

CMPD1001
 CMPD1001A
 CMPD1001S



**SURFACE MOUNT
 HIGH CURRENT
 SILICON SWITCHING DIODE**

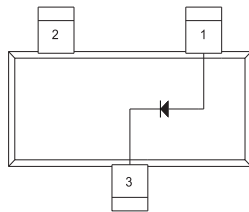
SOT-23 CASE - MECHANICAL OUTLINE



SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.003	0.007	0.08	0.18
B	0.006	-	0.15	-
C	-	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	
H	0.047	0.055	1.19	1.40
I	0.083	0.098	2.10	2.49
J	0.014	0.020	0.35	0.50

SOT-23 (REV: R3)

PIN CONFIGURATIONS

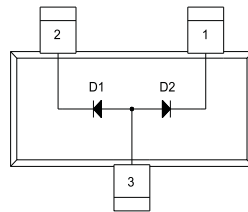


CMPD1001

LEAD CODE:

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

MARKING CODE: L20

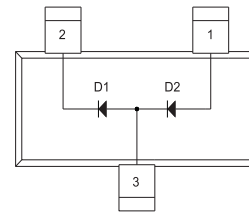


CMPD1001A

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)

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 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
- 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).

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