

**SURFACE MOUNT
HIGH CURRENT
SILICON SWITCHING DIODE**



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

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

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I_R	$V_R=90V$		100	nA
I_R	$V_R=90V, T_A=150^{\circ}C$		100	μA
BV_R	$I_R=100\mu A$	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}	$I_R=I_F=30mA, Rec. to 3.0mA, R_L=100\Omega$		50	ns

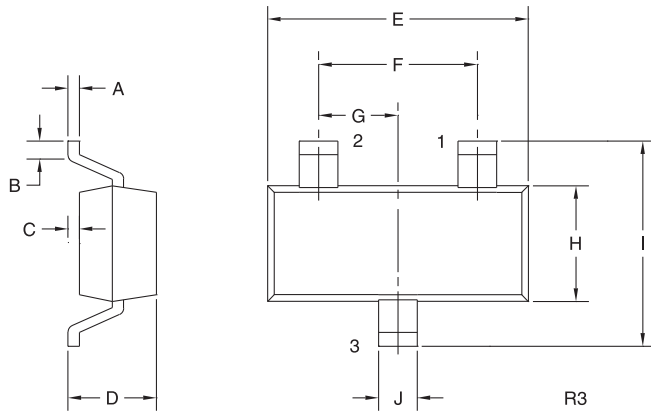
R6 (25-January 2010)

CMPD1001
CMPD1001A
CMPD1001S

**SURFACE MOUNT
HIGH CURRENT
SILICON SWITCHING DIODE**



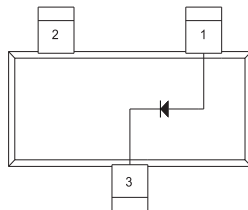
SOT-23 CASE - MECHANICAL OUTLINE



SYMBOL	DIMENSIONS			
	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

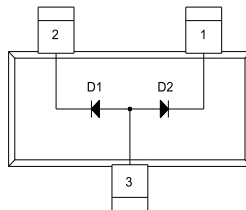


CMPD1001

LEAD CODE:

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

MARKING CODE: L20

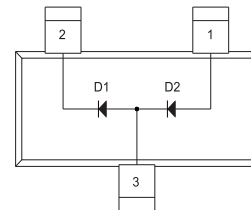


CMPD1001A

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)

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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

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- 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

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