

The following configurations are available:

CMPD500 CMPD500		SINGLE DUAL, IN SERIES	MARKING CO MARKING CO						
MAXIMUM RATINGS: (T _A =25°C)			SYMBOL		UNITS				
Continuous Reverse Voltage			V _R	120	V				
Continuous Forward Current			١ _F	400	mA				
Peak Repetitive Forward Current			IFRM	800	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	1.5	А				
Power Dissipation			PD	350	mW				
Operating and Storage Junction Temperature			т _Ј , т _{stg}	-65 to +150	°C				
Thermal Re			°C/W						
ELECTRICAL CHARACTERISTICS PER DIODE: (T _A =25°C unless otherwise noted)									
SYMBOL		NDITIONS	MIN	MAX	UNITS				
I _R	V _R =90V			100	nA				
IR	V _R =90V,	T _A =150°C		100	μA				
BVR	I _R =50μΑ		120	325	V				
VF	I _F =10mA			0.75	V				
VF	I _F =50mA			0.84	V				
VF	I _F =100mA	A		0.90	V				
VF	I _F =200mA	A		1.00	V				
VF	I _F =400mA	A		1.25	V				
с _т	V _R =0, f=1	.0MHz		35	pF				
t _{rr}	IR=IF=30	mA, I _{rr} =3.0mA, R _L =100Ω		60	ns				
t _{rr}	I _R =I _F =10	mA, I _{rr} =3.0mA, R _L =100Ω		50	ns				

the epitaxial planar process, designed for switching applications requiring extremely high current capability.

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DESCRIPTION:

Semiconductor Corp.

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The CENTRAL SEMICONDUCTOR CMPD5001 series

types are silicon switching diodes manufactured by

www.centralsemi.com

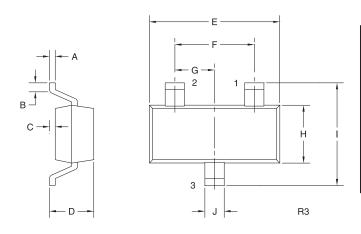
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CMPD5001 CMPD5001S

SURFACE MOUNT HIGH CURRENT INDUCTIVE LOAD SILICON SWITCHING DIODE

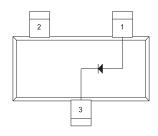
SOT-23 CASE - MECHANICAL OUTLINE



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			
Е	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			
Ī	0.083	0.098	2.10	2.49			
J	0.014	0.020	0.35	0.50			
SUL 33 (DE//- D3)							

SOT-23 (REV: R3)

PIN CONFIGURATIONS



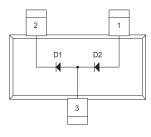
CMPD5001

LEAD CODE:

1) Anode

2) No Connection3) Cathode

MARKING CODE: DA2



CMPD5001S

LEAD CODE: 1) Anode D2

2) Cathode D1

3) Anode D1, Cathode D2

MARKING CODE: D49

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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

· Custom bar coding for shipments

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

- · Custom product packing
- - · Special wafer diffusions
 - PbSn plating options
 - · Package details
 - · Application notes
 - · Application and design sample kits
 - · Custom product and package development

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