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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMPD2003, CMPD2003A, CMPD2003C, CMPD2003S, CMPD2004, CMPD2004A, CMPD2004C and CMPD2004S types are silicon switching diodes manufactured by the epitaxial planar process, designed for applications requiring high voltage capability.

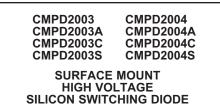
The following configurations are available:

CMPD2003	SINGLE
CMPD2003A	DUAL, COMMON ANODE
CMPD2003C	DUAL, COMMON CATHODE
CMPD2003S	DUAL, IN SERIES
CMPD2004	SINGLE
CMPD2004A	DUAL, COMMON ANODE
CMPD2004C	DUAL, COMMON CATHODE
CMPD2004S	DUAL, IN SERIES

M	ARKING	CODE:	A82
M	ARKING	CODE:	8A2
M	ARKING	CODE:	C3C
M	ARKING	GCODE:	C3S
M	ARKING	CODE:	D53
M	ARKING	GCODE:	DB8
M	ARKING	GCODE:	DB7
M	ARKING	CODE:	DB6

		CMPD2003 CMPD2003A CMPD2003C	CMPD2004 CMPD2004A CMPD2004C	
MAXIMUM RATINGS: (T _A =25°C)	SYMBOL	CMPD2003S	CMPD2004S	UNITS
Continuous Reverse Voltage	VR	200	240	V
Peak Repetitive Reverse Voltage	V _{RRM}	250	300	V
Average Forward Current	IO	200	200	mA
Continous Forward Current	١ _F	250	225	mA
Peak Repetitive Forward Current	IFRM	62	25	mA
Peak Forward Surge Current, tp=1.0µs	IFSM	4.	0	А
Peak Forward Surge Current, tp=1.0s	IFSM	1.	0	А
Power Dissipation	PD	35	50	mW
Operating and Storage Junction Temperature	TJ, Tstg	-65 to	+150	°C
Thermal Resistance	Θ_{JA}	35	57	°C/W

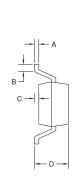
R9 (25-January 2010)

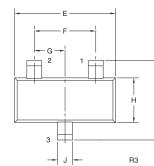




ELECTRICAL CHARACTERISTICS PER DIODE: (TA=25°C unless otherwise noted)

		CMPD2003 CMPD2003A CMPD2003C <u>CMPD2003S</u>		CMPD2004 CMPD2004A CMPD2004C CMPD2004S		
SYMBOL	TEST CONDITIONS	MIN	MAX	MIN	MAX	UNITS
I _R	V _R =200V	-	100	-	-	nA
I _R	V _R =200V, T _A =150°C	-	100	-	-	μA
I _R	V _R =240V	-	-	-	100	nA
I _R	V _R =240V, T _A =150°C	-	-	-	100	μA
BVR	I _R =100μA	250	-	300	-	V
VF	I _F =100mA	-	1.0	-	1.0	V
VF	I _F =200mA	-	1.25	-	-	V
CT	V _R =0, f=1.0MHz	-	5.0	-	5.0	pF
t _{rr}	$I_R=I_F=30$ mA, RL=100 Ω , Rec. to 3.0mA	-	50	-	50	ns





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
	0.083	0.098	2.10	2.49
J	0.014	0.020	0.35	0.50
SOT-23 (REV: R3)				

PIN CONFIGURATIONS 2 2 2 1 D1 D1 D2 D1 D2 D2 3 3 3 CMPD2003 CMPD2003A CMPD2003C **CMPD2003S** CMPD2004A CMPD2004 CMPD2004C CMPD2004S LEAD CODE: LEAD CODE: LEAD CODE: LEAD CODE: 1) Cathode D2 1) Anode 1) Anode D2 1) Anode D2 2) No Connection 2) Cathode D1 2) Cathode D1 2) Anode D1 3) Anode D1, Cathode D2 3) Cathode 3) Anode D1, D2 3) Cathode D1, D2 MARKING CODE: SEE PREVIOUS PAGE

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SOT-23 CASE - MECHANICAL OUTLINE

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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

ss your design challenges.

· Custom product packing

- Special wafer diffusions
- 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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