CMPD2003 CMPD2004 CMPD2003A CMPD2004A CMPD2003C CMPD2004C CMPD2003S CMPD2004S

SURFACE MOUNT HIGH VOLTAGE SILICON SWITCHING DIODE



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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	MARKING CODE: A82
CMPD2003A	DUAL, COMMON ANODE	MARKING CODE: 8A2
CMPD2003C	DUAL, COMMON CATHODE	MARKING CODE: C3C
CMPD2003S	DUAL, IN SERIES	MARKING CODE: C3S
CMPD2004	SINGLE	MARKING CODE: D53
CMPD2004A	DUAL, COMMON ANODE	MARKING CODE: DB8
CMPD2004C	DUAL, COMMON CATHODE	MARKING CODE: DB7
CMPD2004S	DUAL, IN SERIES	MARKING CODE: DB6

		CMPD2003	CMPD2004	
		CMPD2003A	CMPD2004A	
		CMPD2003C	CMPD2004C	
MAXIMUM RATINGS: (T _A =25°C)	SYMBOL	CMPD2003S	CMPD2004S	UNITS
Continuous Reverse Voltage	V_{R}	200	240	V
Peak Repetitive Reverse Voltage	V_{RRM}	250	300	V
Average Forward Current	IO	200	200	mA
Continous Forward Current	ΙF	250	225	mA
Peak Repetitive Forward Current	I _{FRM}	62	25	mA
Peak Forward Surge Current, tp=1.0µs	I _{FSM}	4.	0	Α
Peak Forward Surge Current, tp=1.0s	I _{FSM}	1.	0	Α
Power Dissipation	P_{D}	35	50	mW
Operating and Storage Junction Tempera	ture T _J , T _{stg}	-65 to	+150	°C
Thermal Resistance	$\Theta_{\sf JA}$	35	57	°C/W

CMPD2003 CMPD2004 CMPD2003A CMPD2004A CMPD2003C CMPD2004C CMPD2003S CMPD2004S

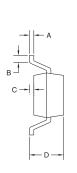
SURFACE MOUNT HIGH VOLTAGE SILICON SWITCHING DIODE

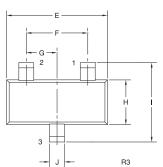


 $\textbf{ELECTRICAL CHARACTERISTICS PER DIODE:} \ (T_{\mbox{\scriptsize M}} = 25 \mbox{°C unless otherwise noted})$

		CMP	02003	CMPE	02004	
		CMPI	D2003A	CMPE	02004A	
		CMPI	D2003C	CMPE	02004C	
		CMPI	02003S	CMPE	02004S	
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	-	-	μΑ
I_R	V _R =240V	-	-	-	100	nA
I_{R}	V _R =240V, T _A =150°C	-	-	-	100	μΑ
BV_R	I _R =100μA	250	-	300	-	V
V_{F}	I _F =100mA	-	1.0	-	1.0	V
V_{F}	I _F =200mA	-	1.25	-	-	V
C_T	$V_R=0$, f=1.0MHz	-	5.0	-	5.0	pF
t _{rr}	$I_R=I_F=30$ mA, $R_L=100\Omega$, Rec. to 3.0mA	-	50	-	50	ns

SOT-23 CASE - MECHANICAL OUTLINE

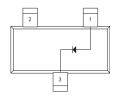


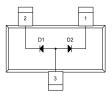


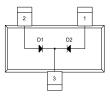
DIMENSIONS					
	INCHES		MILLIMETERS		
SYMBOL	MIN	MAX	MIN	MAX	
Α	0.003	0.007	0.08	0.18	
В	0.006	-	0.15	-	
С	ı	0.005	-	0.13	
D	0.035	0.043	0.89	1.09	
Е	0.110	0.120	2.80	3.05	
F	0.075 1.90		90		
G	0.037		0.95		
Н	0.047	0.055	1.19	1.40	
ĺ	0.083	0.098	2.10	2.49	
J	0.014	0.020	0.35	0.50	

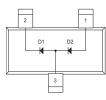
SOT-23 (REV: R3)

PIN CONFIGURATIONS









CMPD2003 CMPD2004 LEAD CODE:

- 1) Anode
- 2) No Connection3) Cathode

CMPD2003A CMPD2004A

- LEAD CODE:
 1) Cathode D2
 2) Cathode D1
- 3) Anode D1, D2

CMPD2003C CMPD2004C

- LEAD CODE: 1) Anode D2 2) Anode D1
- 3) Cathode D1, D2

CMPD2003S CMPD2004S LEAD CODE:

- 1) Anode D2
- 2) Cathode D1
- 3) Anode D1, Cathode D2

MARKING CODE: SEE PREVIOUS PAGE

R9 (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

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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).

CONTACT US

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