

CMPD2003	CMPD2004
CMPD2003A	CMPD2004A
CMPD2003C	CMPD2004C
CMPD2003S	CMPD2004S

**SURFACE MOUNT
HIGH VOLTAGE
SILICON SWITCHING DIODE**



SOT-23 CASE



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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

MARKING CODE: A82
MARKING CODE: 8A2
MARKING CODE: C3C
MARKING CODE: C3S
MARKING CODE: D53
MARKING CODE: DB8
MARKING CODE: DB7
MARKING CODE: DB6

MAXIMUM RATINGS: ($T_A=25^{\circ}\text{C}$)

Continuous Reverse Voltage
 Peak Repetitive Reverse Voltage
 Average Forward Current
 Continuous Forward Current
 Peak Repetitive Forward Current
 Peak Forward Surge Current, $t_p=1.0\mu\text{s}$
 Peak Forward Surge Current, $t_p=1.0\text{s}$
 Power Dissipation
 Operating and Storage Junction Temperature
 Thermal Resistance

SYMBOL	CMPD2003	CMPD2004	UNITS
	CMPD2003A	CMPD2004A	
	CMPD2003C	CMPD2004C	
	CMPD2003S	CMPD2004S	
V_R	200	240	V
V_{RRM}	250	300	V
I_O	200	200	mA
I_F	250	225	mA
I_{FRM}		625	mA
I_{FSM}		4.0	A
I_{FSM}		1.0	A
P_D		350	mW
T_J, T_{stg}		-65 to +150	$^{\circ}\text{C}$
θ_{JA}		357	$^{\circ}\text{C/W}$

R9 (25-January 2010)

CMPD2003 CMPD2004
 CMPD2003A CMPD2004A
 CMPD2003C CMPD2004C
 CMPD2003S CMPD2004S

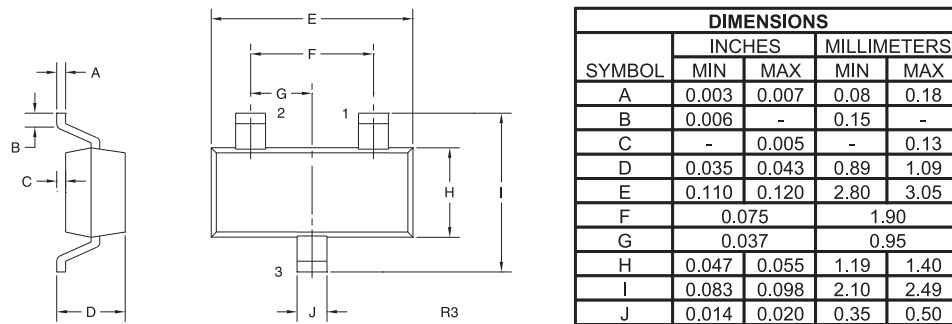
**SURFACE MOUNT
 HIGH VOLTAGE
 SILICON SWITCHING DIODE**



ELECTRICAL CHARACTERISTICS PER DIODE: ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

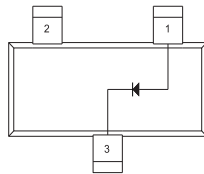
SYMBOL	TEST CONDITIONS	CMPD2003		CMPD2004		UNITS
		MIN	MAX	MIN	MAX	
I_R	$V_R=200\text{V}$	-	100	-	-	nA
I_R	$V_R=200\text{V}$, $T_A=150^{\circ}\text{C}$	-	100	-	-	μA
I_R	$V_R=240\text{V}$	-	-	-	100	nA
I_R	$V_R=240\text{V}$, $T_A=150^{\circ}\text{C}$	-	-	-	100	μA
BV_R	$I_R=100\mu\text{A}$	250	-	300	-	V
V_F	$I_F=100\text{mA}$	-	1.0	-	1.0	V
V_F	$I_F=200\text{mA}$	-	1.25	-	-	V
C_T	$V_R=0$, $f=1.0\text{MHz}$	-	5.0	-	5.0	pF
t_{rr}	$I_R=I_F=30\text{mA}$, $R_L=100\Omega$, Rec. to 3.0mA	-	50	-	50	ns

SOT-23 CASE - MECHANICAL OUTLINE



SOT-23 (REV: R3)

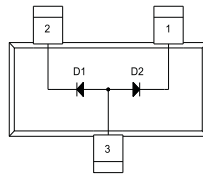
PIN CONFIGURATIONS



**CMPD2003
 CMPD2004**

LEAD CODE:

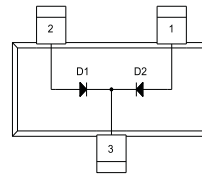
- 1) Anode
- 2) No Connection
- 3) Cathode



**CMPD2003A
 CMPD2004A**

LEAD CODE:

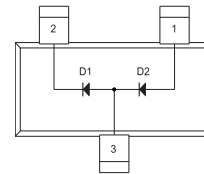
- 1) Cathode D2
- 2) Cathode D1
- 3) Anode D1, D2



**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

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AMEYA360

Components Supply Platform

Authorized Distribution Brand :



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