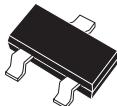


CMPD2003
 NEW! CMPD2003C
 NEW! CMPD2003S
 CMPD2004
 NEW! CMPD2004C
 CMPD2004S

**SURFACE MOUNT
HIGH VOLTAGE SWITCHING DIODE**



SOT-23 CASE

The following configurations are available:

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

MARKING CODE: A82
MARKING CODE: C3C
MARKING CODE: C3S
MARKING CODE: D53
MARKING CODE: DB7
MARKING CODE: DB6

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

	<u>SYMBOL</u>	<u>CMPD2003</u>	<u>CMPD2004</u>	<u>UNITS</u>
		<u>CMPD2003C</u>	<u>CMPD2004C</u>	
		<u>CMPD2003S</u>	<u>CMPD2004S</u>	
Continuous Reverse Voltage	V_R	200	240	V
Peak Repetitive Reverse Voltage	V_{RRM}	250	300	V
Peak Repetitive Reverse Current	I_O	200	200	mA
Continuous Forward Current	I_F	250	225	mA
Peak Repetitive Forward Current	I_{FRM}	625	625	mA
Forward Surge Current, $t_p=1\text{ ms}$	I_{FSM}	4000	4000	mA
Forward Surge Current, $t_p=1\text{ s}$	I_{FSM}	1000	1000	mA
Power Dissipation	P_D	350		mW
Operating and Storage				
Junction Temperature	T_J, T_{stg}	-65 to +150		$^\circ\text{C}$
Thermal Resistance	Θ_{JA}	357		$^\circ\text{C/W}$

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

<u>SYMBOL</u>	<u>TEST CONDITIONS</u>	<u>CMPD2003</u>		<u>CMPD2004</u>		<u>UNIT</u>
		<u>MIN</u>	<u>MAX</u>	<u>MIN</u>	<u>MAX</u>	
BV_R	$I_R=100\mu\text{A}$	250		300		V
I_R	$V_R=200\text{V}$		100		-	nA

Central™
Semiconductor Corp.

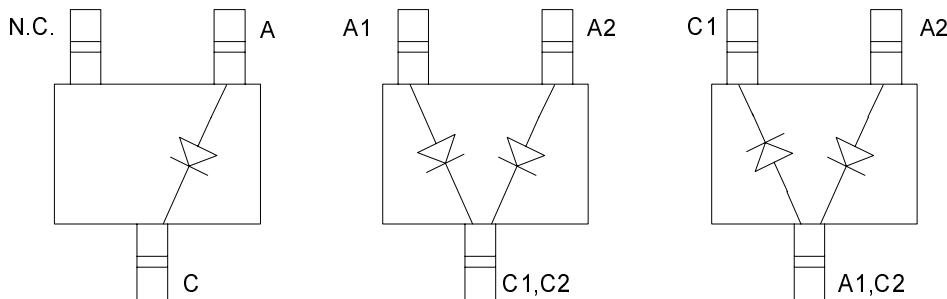
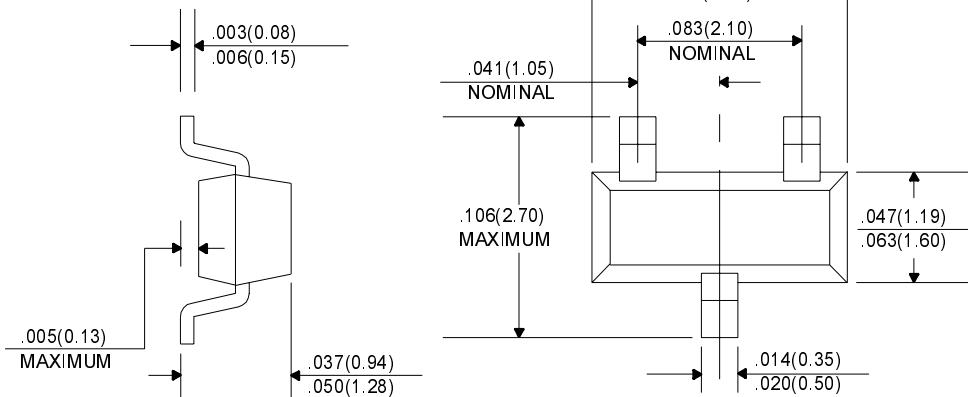
DESCRIPTION

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

<u>SYMBOL</u>	<u>TEST CONDITIONS</u>	<u>CMPD2003</u>	<u>CMPD2004</u>	
		<u>CMPD2003C</u>	<u>CMPD2004C</u>	
		<u>CMPD2003S</u>	<u>CMPD2004S</u>	
		<u>MIN</u>	<u>MAX</u>	
		<u>MIN</u>	<u>MAX</u>	
		<u>UNIT</u>		
I_R	$V_R=200V, T_A=150^\circ C$	100	-	μA
$ I_R$	$V_R=240V$	-	100	nA
$ I_R$	$V_R=240V, T_A=150^\circ C$	-	100	μA
V_F	$I_F=100mA$	1.0	1.0	V
V_F	$I_F=200mA$	1.25	-	V
C_T	$V_R=0, f=1\text{ MHz}$	5.0	5.0	pF
t_{rr}	$I_F=I_R=30mA, \text{ Rec. TO } 3.0mA, R_L=100\Omega$	50	50	ns

TOP VIEW

All Dimensions in Inches (mm).



CMPD2003
CMPD2004

CMPD2003C
CMPD2004C

CMPD2003S
CMPD2004S