

CMPD2003
CMPD2003C
CMPD2003S
CMPD2004
CMPD2004C
CMPD2004S
SURFACE MOUNT HIGH VOLTAGE SWITCHING DIODE



The following configurations are available:

CMPD2003	SINGLE	MARKING CODE: A82
CMPD2003C	DUAL, COMMON CATHODE	MARKING CODE: C3C
CMPD2003S	DUAL, IN SERIES	MARKING CODE: C3S
CMPD2004	SINGLE	MARKING CODE: D53
CMPD2004C	DUAL, COMMON CATHODE	MARKING CODE: DB7
CMPD2004S	DUAL, IN SERIES	MARKING CODE: DB6

MAXIMUM RATINGS (T_A=25°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 ms	I _{FSM}	4000	4000	mA
Forward Surge Current, t _p =1 s	I _{FSM}	1000	1000	mA
Power Dissipation	P _D		350	mW
Operating and Storage				
Junction Temperature	T _J , T _{stg}		-65 to +150	°C
Thermal Resistance	θ _{JA}		357	°C/W

ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

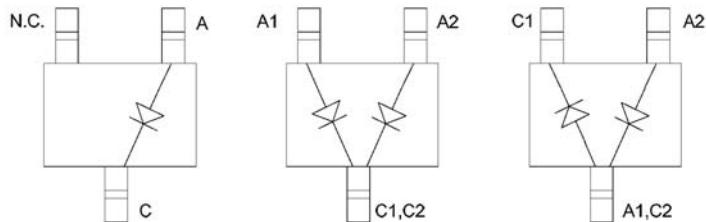
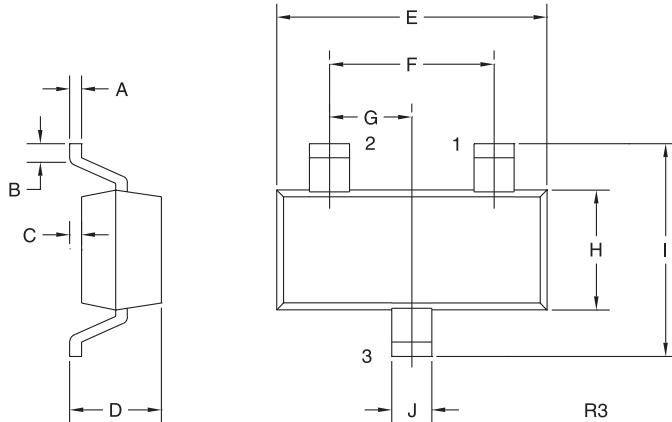
<u>SYMBOL</u>	<u>TEST CONDITIONS</u>	<u>CMPD2003</u>		<u>CMPD2004</u>		<u>UNIT</u>
		<u>MIN</u>	<u>MAX</u>	<u>MIN</u>	<u>MAX</u>	
BV _R	I _R =100μA	250		300		V
I _R	V _R =200V		100		-	nA

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

SOT-23 CASE - MECHANICAL OUTLINE

SYMBOL	DIMENSIONS			
	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.003	0.007	0.08	0.18
B	0.006	-	0.15	-
C	-	0.005	-	0.13
D	0.035	0.043	0.89	1.09
E	0.110	0.120	2.80	3.05
F	0.075	-	1.90	-
G	0.037	-	0.95	-
H	0.047	0.055	1.19	1.40
I	0.083	0.098	2.10	2.49
J	0.014	0.020	0.35	0.50

SOT-23 (REV: R3)



CMPD2003
CMPD2004

CMPD2003C
CMPD2004C

CMPD2003S
CMPD2004S