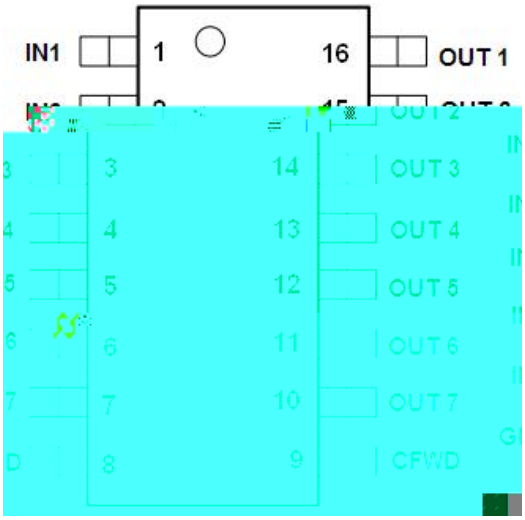


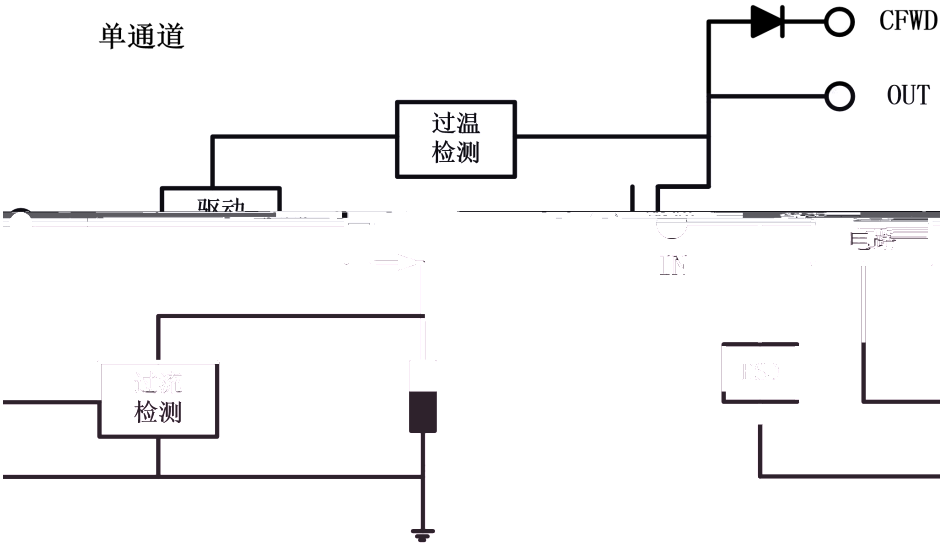
2

1

IN1~7 1~7

GND 8

C7



3 MCS4230L7

V_{OUT} ……-0.3V~42V

I_{OUT} …… 300mA

V_{IN} …… -0.3V~7V

V_R @CFWD ……37V~42V

I_F @OUT CFWD …… 300mA

P_{tot} 7 T_A=25°C ……1W

[2]

θ_{JA}……124 /W

…… -40 ~150

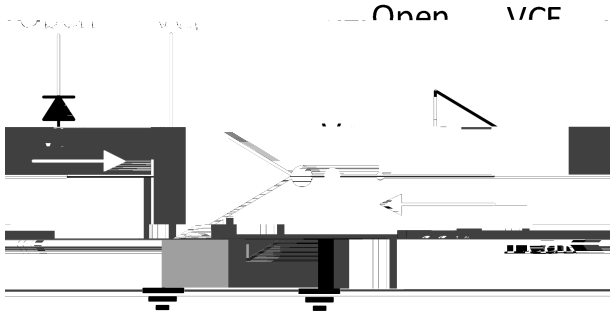
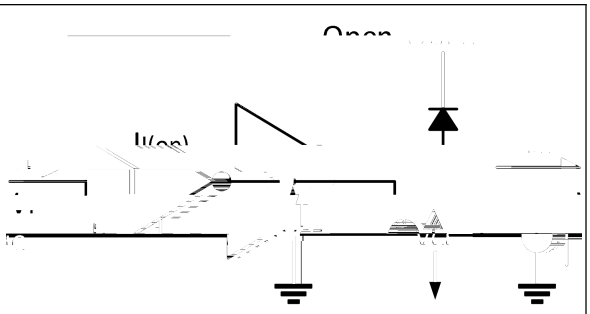
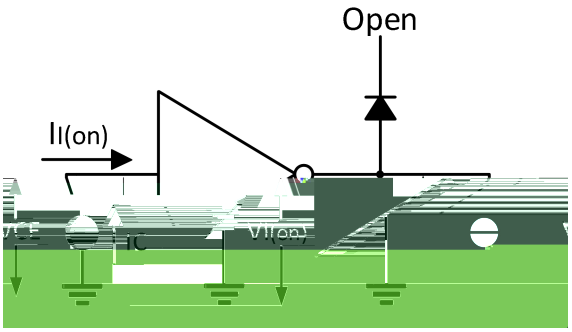
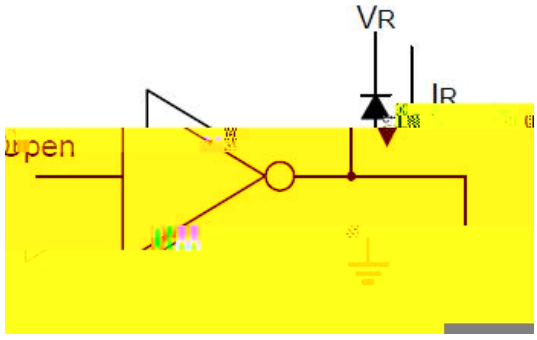
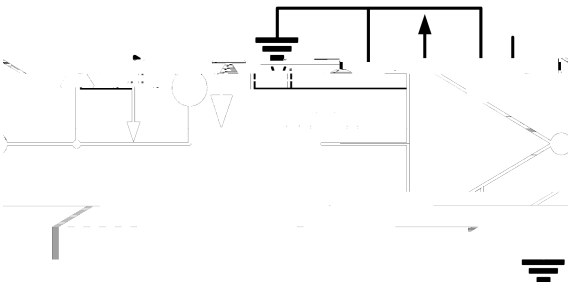
…… -40 ~150

ESD[3]

V_{ESD_HBM}……-2000V~+2000V

T_A = 25

I_{Leak} V_{CE} < 37o

	
4 I_{Leak}	5 V_{CE}
	
6 I_q	7 $V_{I(on)}$
	
8 I_R	9 V_F

T_A=25

(V_{CE}=10V V_{IN}=5V I_C=100mA V_{IN}=5V to 90%I_C)



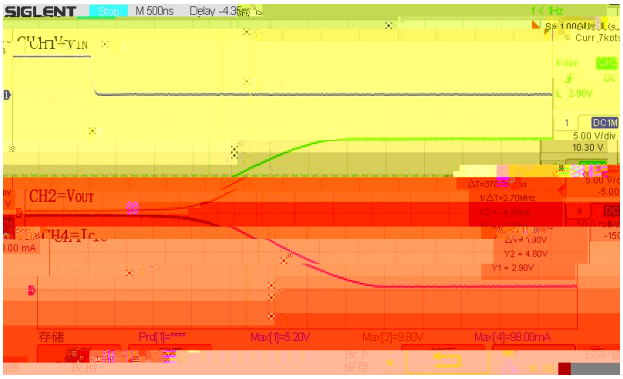
V_{CE}=10V V_{IN}=5V I_C=100mA 50% to 30%V_{OUT}

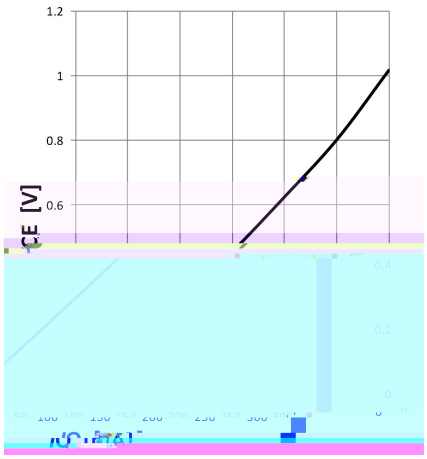


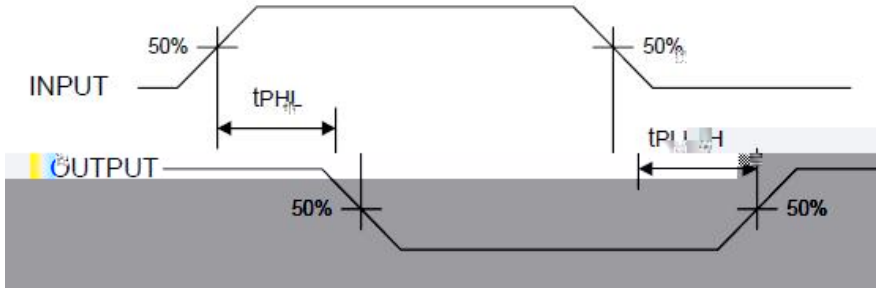
(V_{CE}=10V V_{IN}=5V I_C=100mA V_{IN}=0V to 10%I_C)

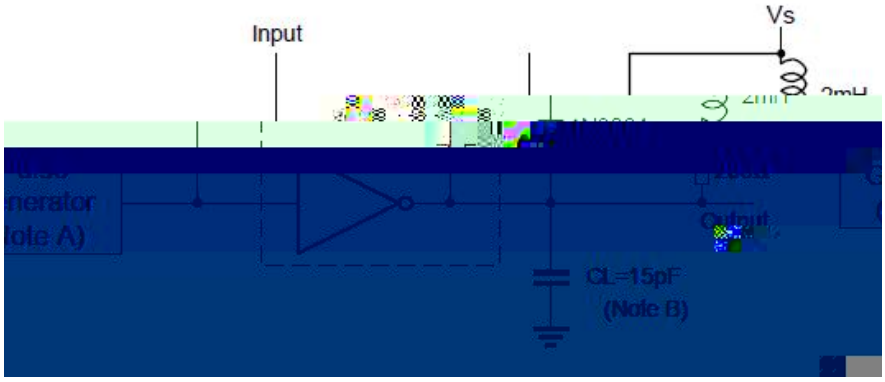


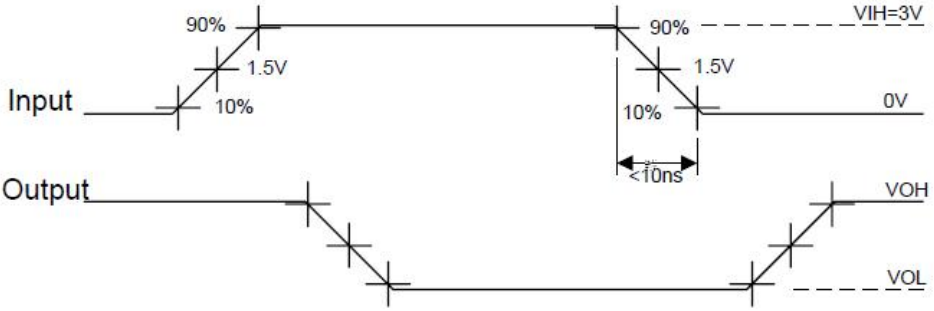
V_{CE}=10V V_{IN}=5V I_C=100mA 30% to 50%V_{OUT}

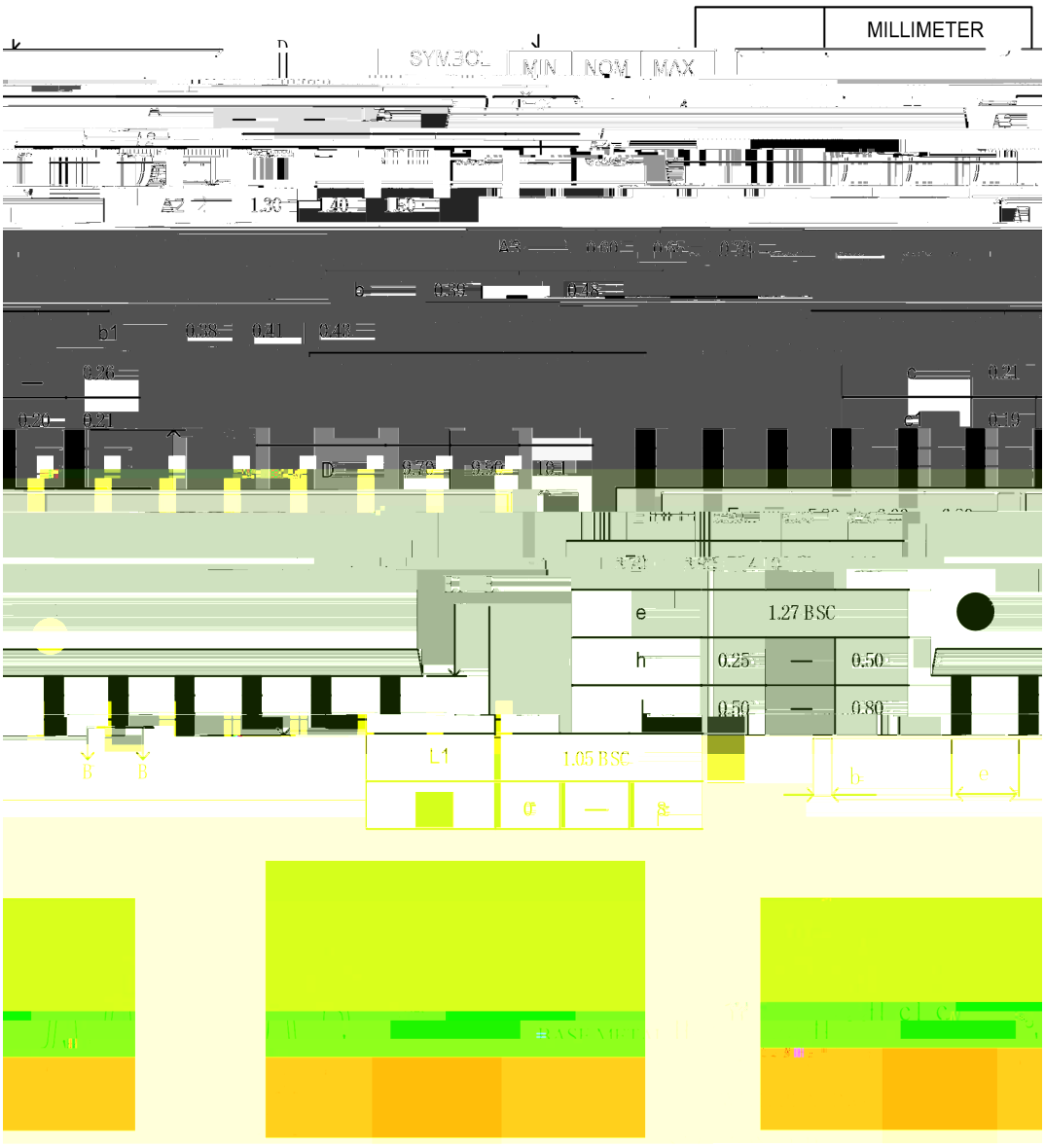





50%
50%
INPUT
tPHL
OUTPUT
50%
50%


Input
Vs
CL=15pF
(Note B)


90%
1.5V
10%
Input
90%
1.5V
10%
VIH=3V
0V
<10ns
Output
VOH
VOL


MILLIMETER
SYMBOL
MIN
NOM
MAX
e
1.27 BSC
h
0.25
0.50
0.50
0.80
L1
1.05 BSC
B
B

SOP16L

MCS4230L7	SOP16L	3000/Tape & Reel