24V 100mA CMOS

■

LN1176 24V CMOS

AV

■

1.2 5.0V , 0.1 V

± 2.0%

2 A

100mA $V_{IN} \geq V_{OUT}+1V$

24V

■

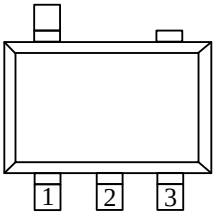
- SOT-89-3L
- SOT-23L
- SOT23-5L
- TO-92

■

LN1176 B -

	76			1/2	1 ± 1% 2 ± 2%
	B			M	SOT-23-3L
				V	SOT23-3B
				T	TO-92
				F	SOT-23-5L

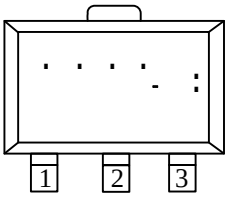
■



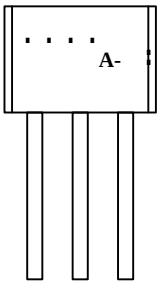
SOT-23-3L	**SOT23-5L**	**TO-92**	**SOT-89-3L**		
3	2	2	2	VIN	
1	1	1	1	GND	
	4,5	-	-	NC	
2	3	3	3	VOUT	

■

- **SOT-89-3 TO-92**



SOT-89-3L
(TOP VIEW)



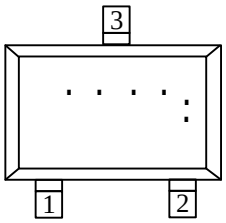
TO-92
(FRONT VIEW)

76	LN1176

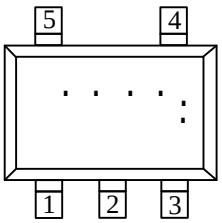
		=3 =0 3.0V

0 9 A Z G I J O Q W

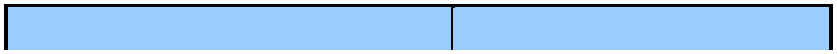
- **SOT23-3L SOT23-5L**



SOT-23-3L
(TOP VIEW)

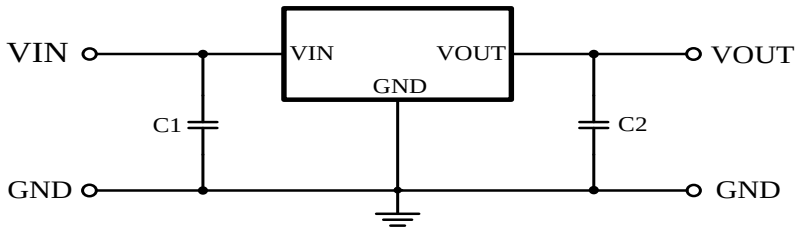


SOT-23-5L
(TOP VIEW)



6

■



(C1) 1µF (C2) 1 µF

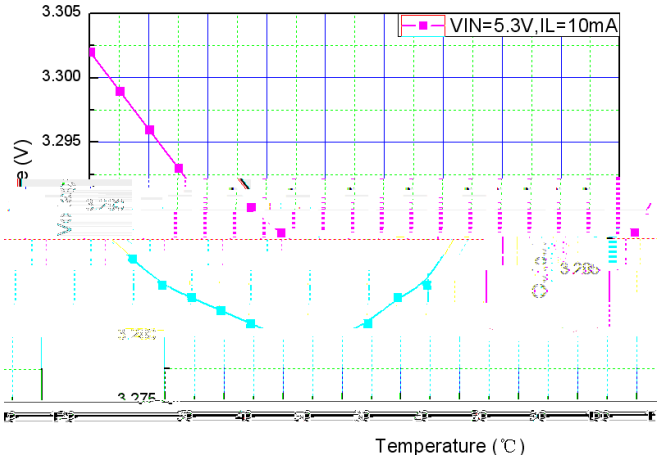
■

(TA=25 unless otherwise noted)

	$V_{OUT(E)1}$	$V_{CE}=V_{IN}=V_{OUT(S)}+2.0$ V I_{OUT}=1 mA	$V_{OUT(S)}$ ×0.98	$V_{OUT(S)}$	$V_{OUT(S)}$ ×1.02	V
	I_{OUT}	V_{IN} $_{OUT(S)}$+2.0 V	100	—	—	mA
	V_{drop}	I_{OUT}=100 mA		780		mV
	$\frac{V_{OUT1}}{V_{IN}\ V_{OUT}}$	$V_{CE}=V_{OUT(S)}$+2 $_{IN}$ 16V I_{OUT}=1 mA	—	0.2	0.3	%/V
	V_{OUT2}	$V_{CE}=V_{IN}=V_{OUT(S)}$+2.0 V $_{OUT}$	—	30	50	mV
	$\frac{V_{OUT}}{Ta\ V_{OUT}}$	$V_{CE}=V_{IN}=V_{OUT(S)}$+2.0 V, I_{OUT}=10 mA - Ta	—	± 100		ppm/

■

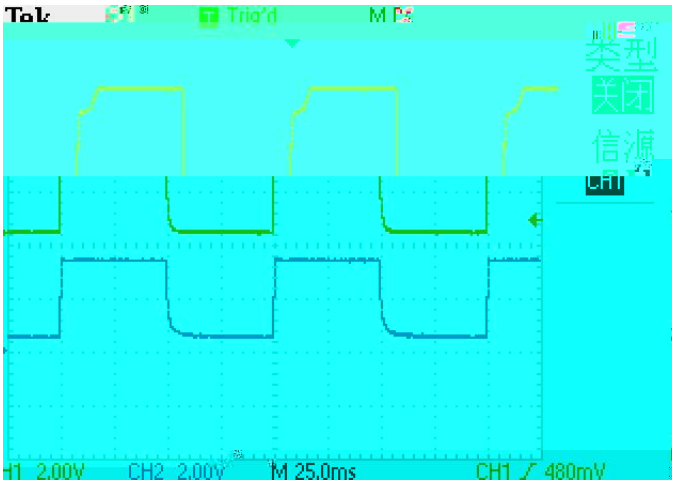
1. (VIN=5.3V, CIN=COUT=10uF, OUT=30mA)



2. (VIN=5.3V, Iout=10mA, CIN=COUT=10uF, Vpp=0.5V, F=1KHz)



3. (VIN=0-5.3V, CIN=COUT=10uF)



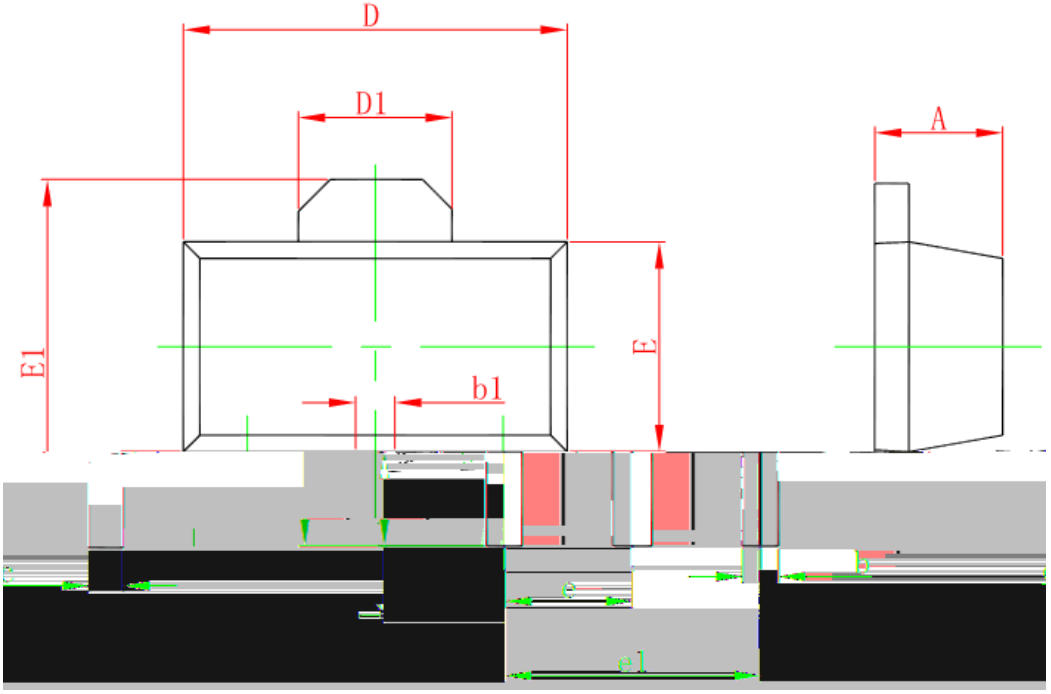
4. (VIN=5.3V-6.3V, Iout=10mA, CIN=COUT=10uF)



5. (VIN=5.3V, CIN=COUT=10uF, Iout=10

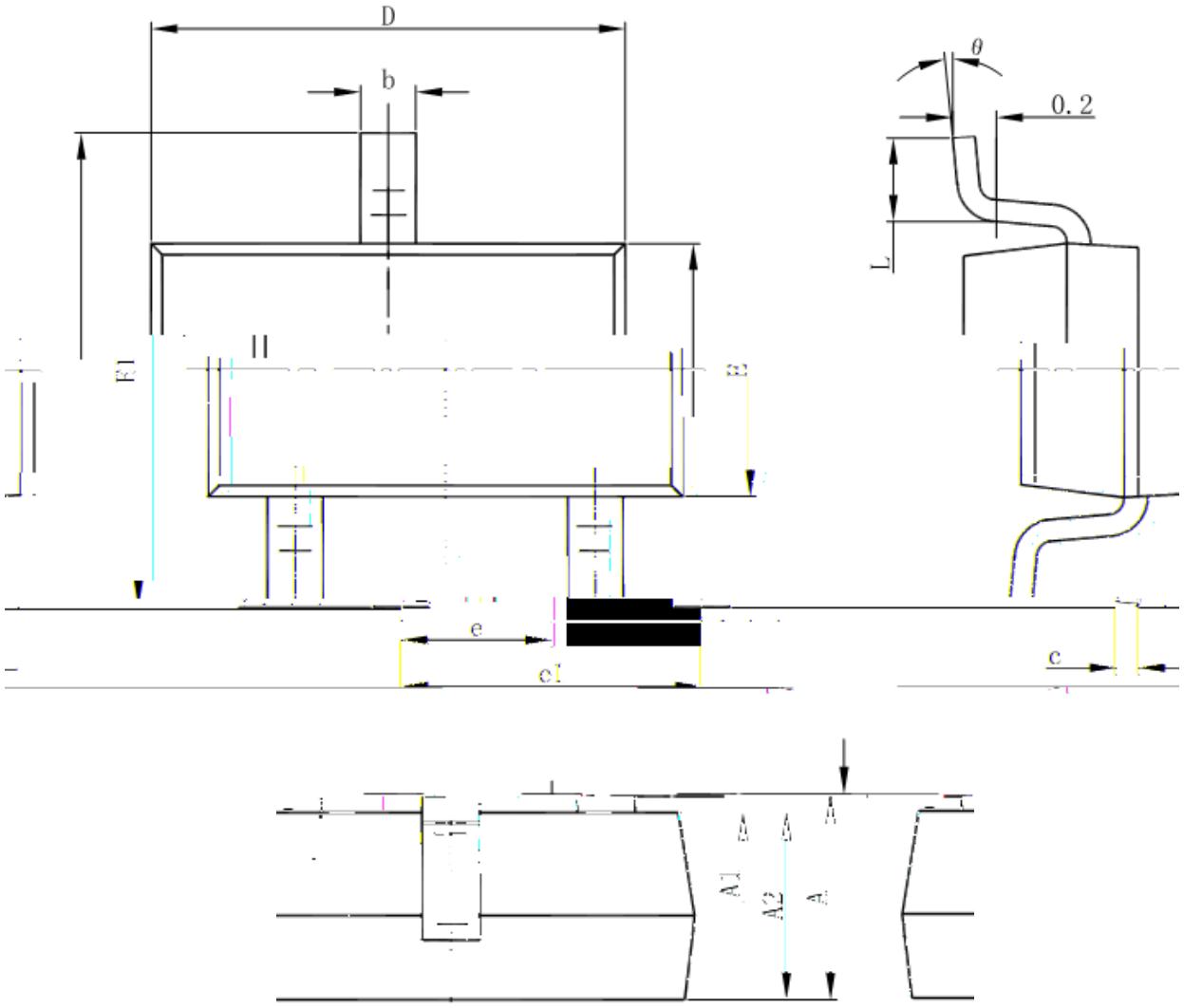
■

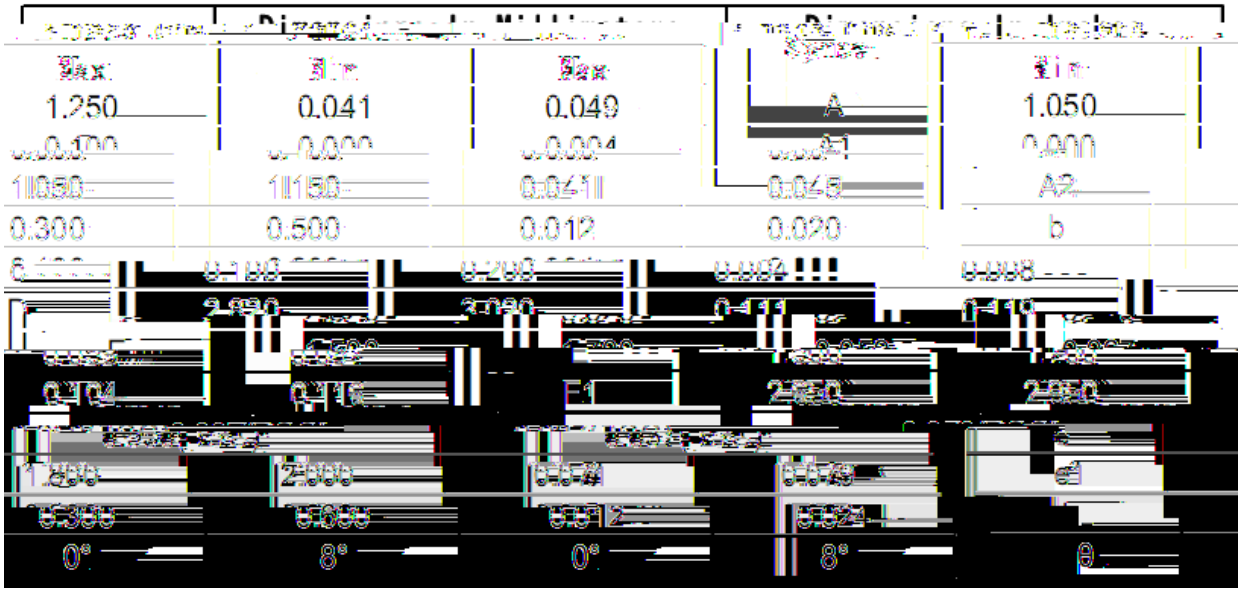
SOT-89-3L



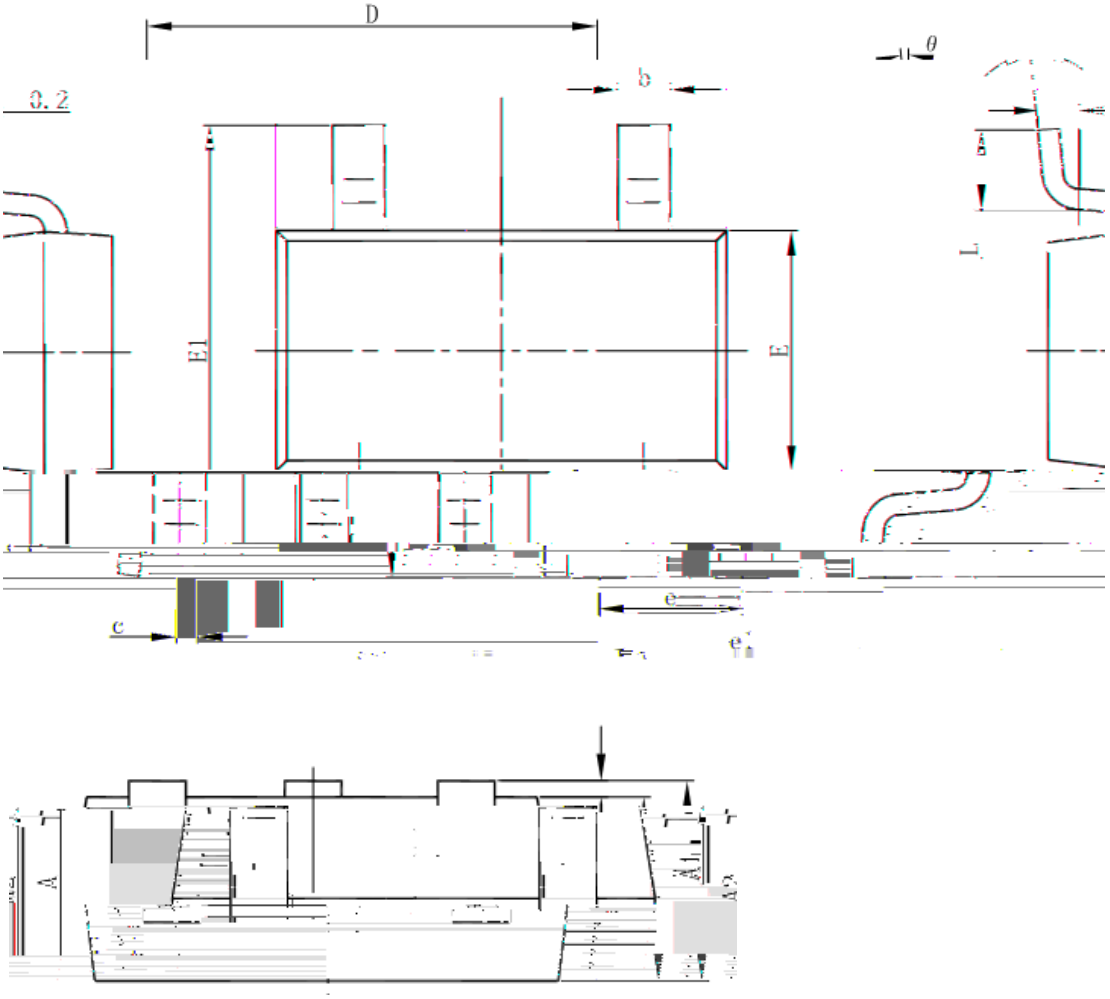
Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	1.400	1.600	0.055	0.063
b	0.320	0.520	0.013	0.020
b1	0.400	0.580	0.016	0.023
e	0.350	0.440	0.014	0.017
D	4.400	4.600	0.173	0.181
D1	0.86 REF.		1.550 REF.	
E	2.300	2.600	0.091	0.102
E1	3.940	4.250	0.155	0.167
e	1.500 TYP.		0.060 TYP.	
e1	3.000 TYP.		0.118 TYP.	

- **SOT-23-3L**




1.250
0.041
0.049
1.050
0.300
0.500
0.012
0.020
b
0°
8°
0°
8°
θ

- **SOT-23-5L**


D
0.2
b
θ
E1
E
L
e
c
e1
A
A1
A2

A1	0.000	0.100	0.000	0.004
A2	1.050	1.150	0.041	0.045
b	0.300	0.500	0.012	0.020
c	0.008	0.100	0.200	0.004
D	0.111	0.119	2.820	3.020
E	0.059	0.067	1.500	1.700
F1	0.104	0.116	2.730	2.930
e	0.037(BSC)		0.950(BSC)	
e1	0.000	0.071	0.079	1.800

- TO-92

