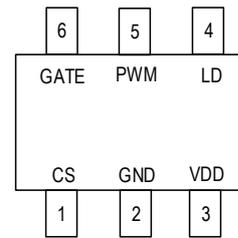


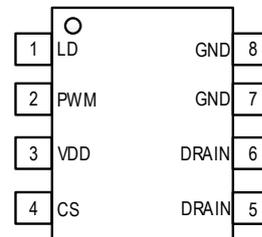
SM3618XX

5V~150V
5V
<±3%
60mA~3A
95%
BUCK
1MHz
PWM 65536
SOT23-6 SOP8
LCD

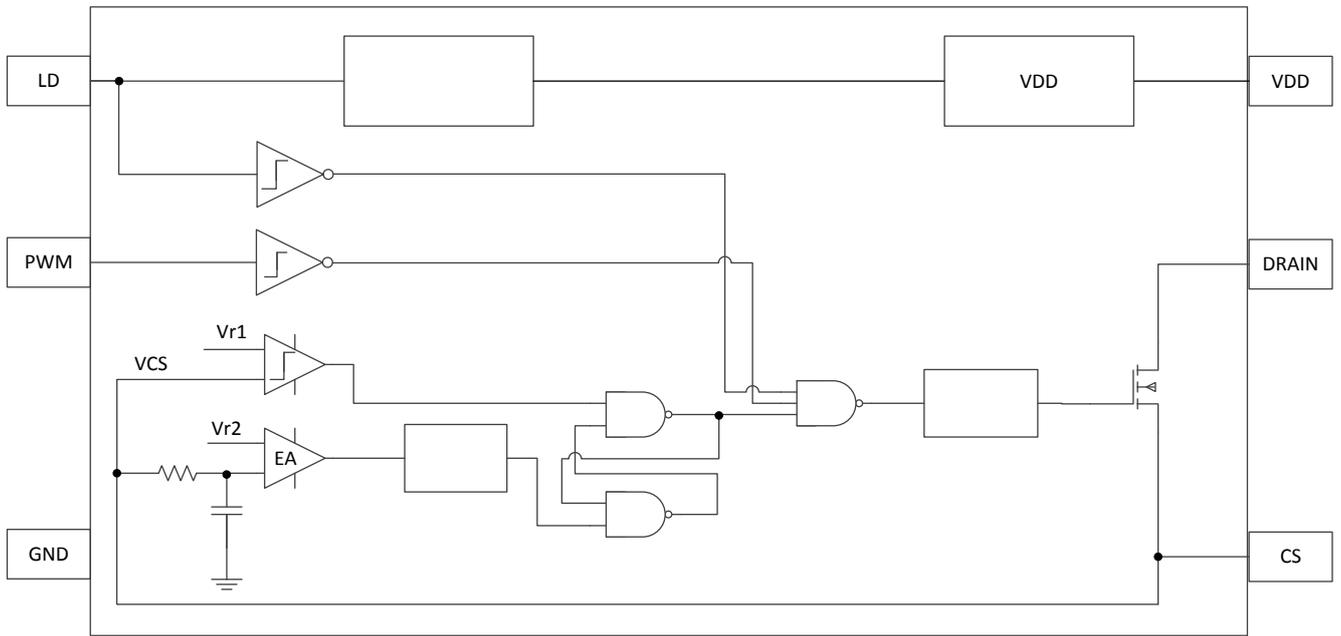
SM3618XX	LED	PWM	LED
	5V~150V		1M
95%	R _{CS}		DIM
PWM		PWM	
65536		±3%	



SOT23-6



SOP8



1 SOT23-6

1	CS
2	GND

SOP8 SM3618①②

①	A	MOS	60V	SOP8
	C	MOS	100V	
	E	MOS	150V	
②	A	MOS	2A	
	B	MOS	3A	

SOT23-6 SM3618③

③	T	MOS	SOT23-6

SM3618XX	SOP8	100000 /	4000 /	13
SM3618T	SOT23-6	-	3000 /	7

1

T_A=25°C

VDD	VDD	-0.3~7.0		V	
V _{CS}	CS	-0.3~7.0		V	
V _{DIM}	DIM	-0.3~7.0		V	
V _{LD}	LD	-0.3~7.0		V	
R _{θJA}	PN	2	SOT23-6	210	°C/W
			SOP8	130	
P _D	3		SOT23-6	0.35	W
			SOP8	0.5	
T _J		-40~150		°C	
T _{STG}		-55~150		°C	
V _{ESD}	HBM	>2		KV	

1

2 R_{θJA} T_A=25°C

JEDEC JESD51

3

T_{JMAX} R_{θJA}

T_A

P_D = (T_{JMAX}-T_A) / R_{θJA}

SM3618XX LED LED PWM
 5V 1M 95% R_{CS}
 DIM PWM PWM 65536 ±3%
 BUCK CCM

SM3618XX VDD VDD 4.3V VDD
 5V VDD

$$VDD = VIN - I1 * R1(V)$$

I1 R1
 I1 VDD

R1

47uF 0.6A R1

VIN	5V	12V	24V	48V	56V
R3	100Ω	1K	2.7K	6.2K	7.5K

SM3618XX CS
 CS R_{CS} DIM LD 1.2V
 CCM CCM

$$I_{OUT} = \frac{V_{EA-REF}}{R_{CS}} (mA) \quad V_{EA-REF} = 205mV$$

SM3618XX PFM SM3618XX
 CCM

$$I = \frac{V_{CS} - V_{EA-REF}}{R_{CS}}$$

$$T_{on} = \frac{I_{PK} L}{VIN - V_{D1} - V_{LED} - I_{OUT} * (R_L + R_{DS-ON} + R_{CS})}$$

$$T_{off} = \frac{I_{PK} L}{V_{D2} + V_{LED} + I_{OUT} * R_L}$$

$$F_{sw} = \frac{1}{T_{off} + T_{on}}$$

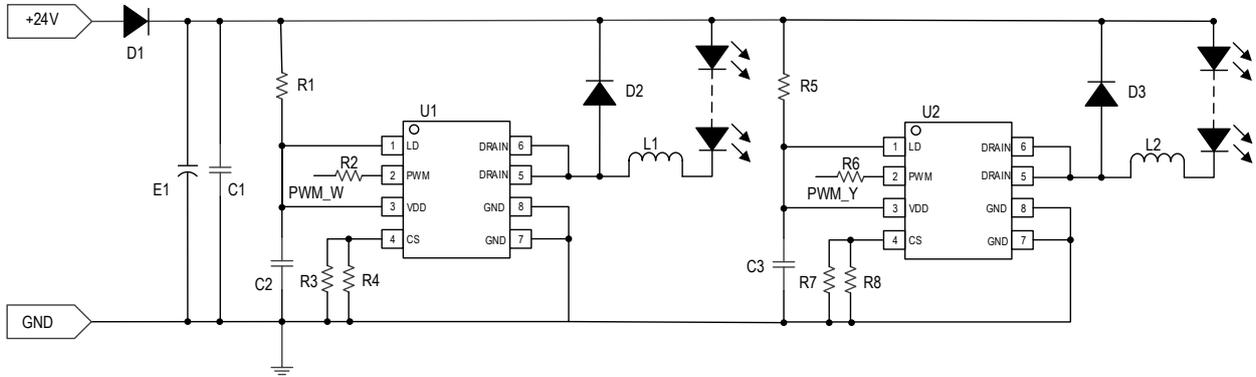
V_{D1} V_{D2} V_{LED} R_L R_{DS-ON} MOS

业务电话: 400-033-6518

注: 如需最新资料或技术支持, 请与我们联系

SM3618EA

18V/300mA



BOM

R1	R5	2.7K/1206	C1	100nF/50V	L1	L2	CDRH127-100
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业务电话：400-033-6518

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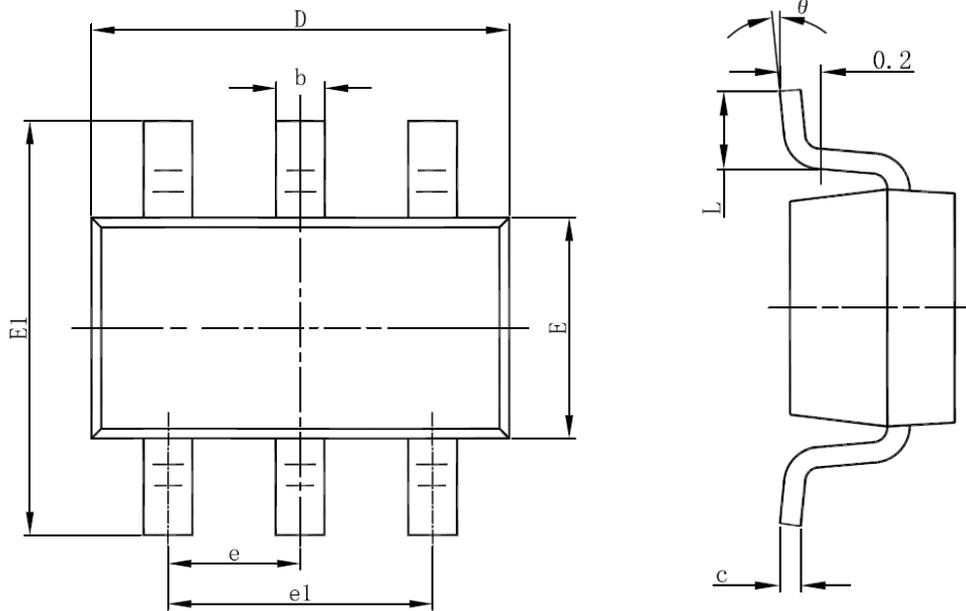
RoHs

J-STD-020

mm³ < 350

mm³ 350~2000

SOT23-6

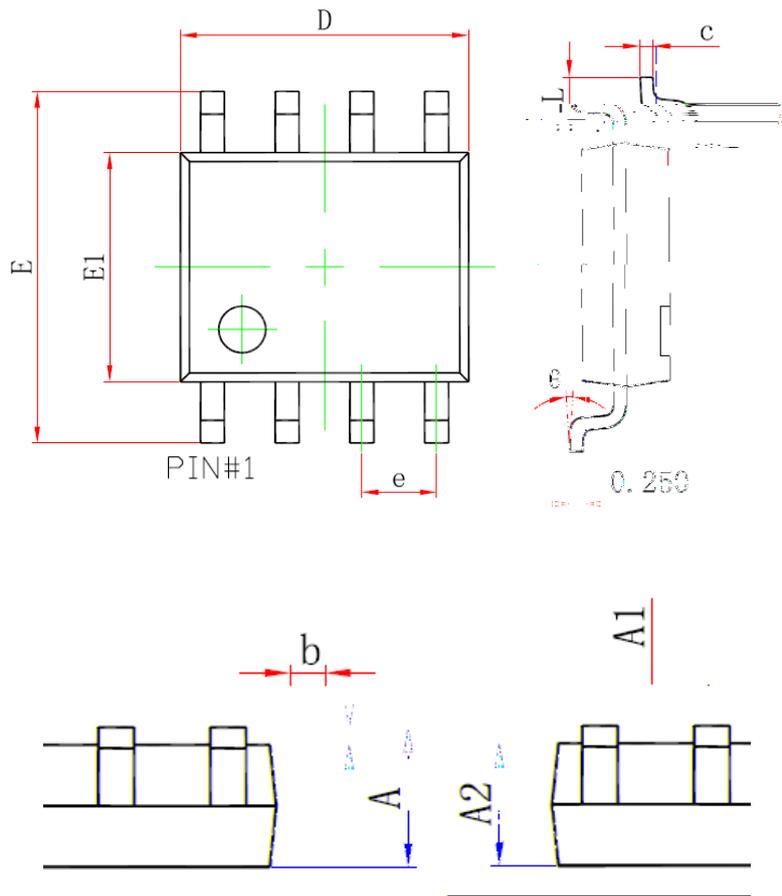


Symbol	Min(mm)	Max(mm)
A	0.95	1.45
A1	-	0.15
A2	0.95	1.35
b	0.2	0.7
c	0.05	0.35
D	2.7	3.3
E	1.4	1.9
E1	2.5	3.2
e	0.95(BSC)	
e1	1.9(BSC)	
L	0.2	0.8
θ	0°	10°

业务电话：400-033-6518

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SOP8



Symbol	Min(mm)	Max(mm)
A	1.25	1.95
A1	-	0.25
A2	1.25	1.75
b	0.25	0.7
c	0.1	0.35
D	4.6	5.3
e	1.27(BSC)	
E	5.7	6.4
E1	3.7	4.2
L	0.2	1.5
θ	0°	10°

业务电话：400-033-6518

注：如需最新资料或技术支持，请与我们联系