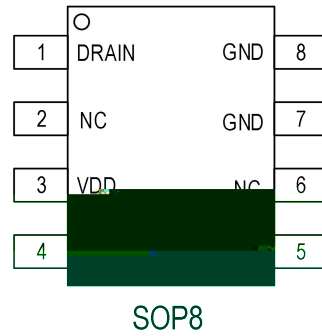


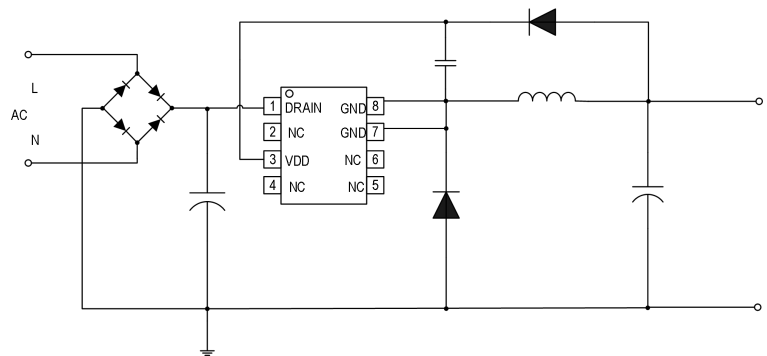
SM6035-5

- ◆ 85Vac~265Vac
- ◆ BUCK
- ◆ 500V
- ◆ 50mW@ 220Vac
- ◆ 33KHz
- ◆ SOP8

- SM6035-5
- 85Vac~265Vac
- CS
- SM6035-5
- 500V
- PCB
- SM6035-5
- 5.0V



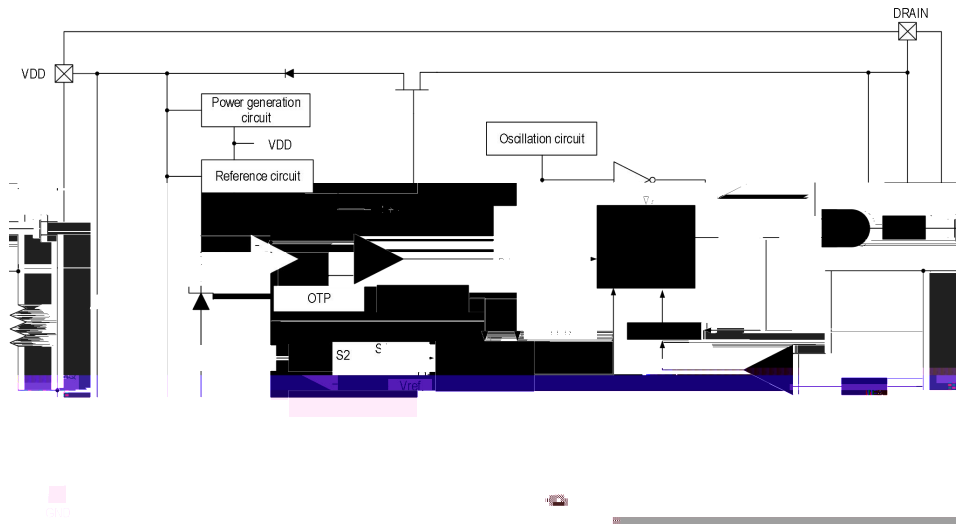
SM6035-5	85Vac~265Vac	5.0V	300mA



- ◆ AC/DC
- ◆
- ◆

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1	DRAIN	MOS	DRAIN
2 4 5 6	NC		NC
3	VDD		
7 8	GND		GND

SM6035-5	SOP8	100000 /	4000 /	13

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1

$T_A=25^{\circ}\text{C}$

V_{DS}	DRAIN		-0.3-5.00	V
VDD	VDD		-0.3-8	V
R JA	PN	2	130	$^{\circ}\text{C/W}$
P_D		3	0.5	W
T_J			-40-150	$^{\circ}\text{C}$
T_{STG}			-55-150	$^{\circ}\text{C}$
V_{ESD}	HBM		2	KV

1

2 R JA $T_A=25^{\circ}\text{C}$

JEDEC JESD51

3

T_{JMAX} R JA

T_A

$P_D = (T_{JMAX}-T_A)/R_{JA}$

4 5

$T_A=25^{\circ}\text{C}$

I_{DSS}	DRAIN	$V_{VDD}=5V; V_{DRAIN}=5.00V$	0	-	0.1	mA
$R_{DS(ON)}$		$I_D=30mA$	-	13	-	
V_{DDON}	VDD	$V_{VDD}=6.0V$	-	5.3	-	V
V_{DDOFF}	VDD	$V_{VDD}=6.0V$	-	2.8	-	V
V_{DDRST}	VDD	$V_{VDD}=6.0V$	-	1.6	-	V
V_{DDOVP}	VDD	$V_{VDD}=6.0V; V_{DRAIN}=4.0V$	-	6.5	-	V
IDD		$V_{VDD}=5.0V; V_{DRAIN}=4.0V$	110	130	150	μA
F_{OSC}		$V_{VDD}=5.0V; V_{DRAIN}=4.0V$	28	33	38	KHz
T_{LEB}		$V_{VDD}=5.0V; V_{DRAIN}=4.0V$	-	110	-	ns
T_{OTP}	6	-	-	150	-	$^{\circ}\text{C}$

4

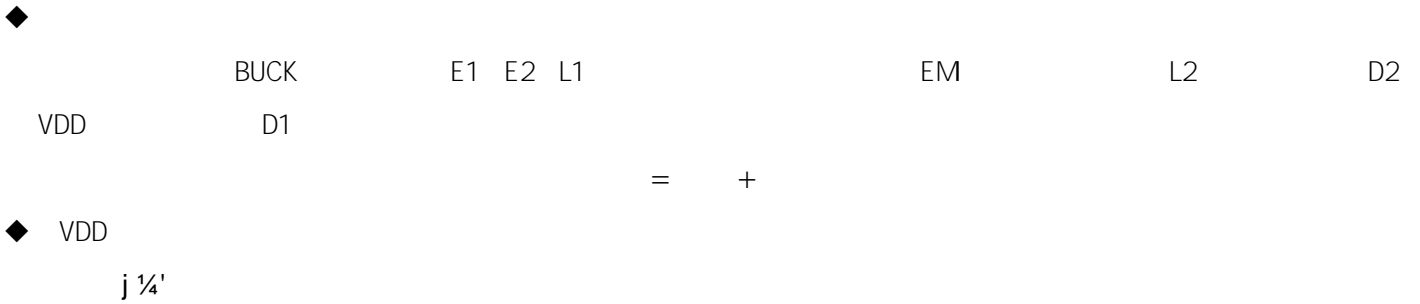
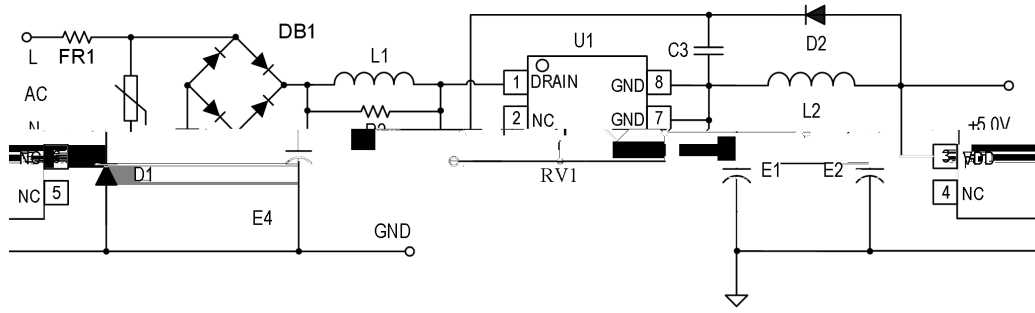
5

6

150 $^{\circ}\text{C}$

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◆ BUCK

BUCK D

$$D = \frac{V_{out}}{V_{in_min}}$$

K_{RF} 0.3

$$K_{RF} = \frac{I}{I_{out}} = 0.3$$

BUCK

$$L = \frac{V_{out} (1-D)}{I f}$$

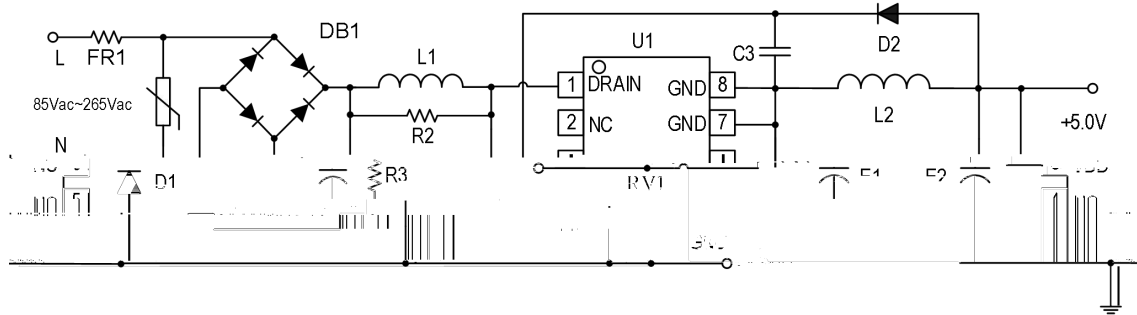
V_{out}

I

f_{osc}

33KHz

5.0V/300mA

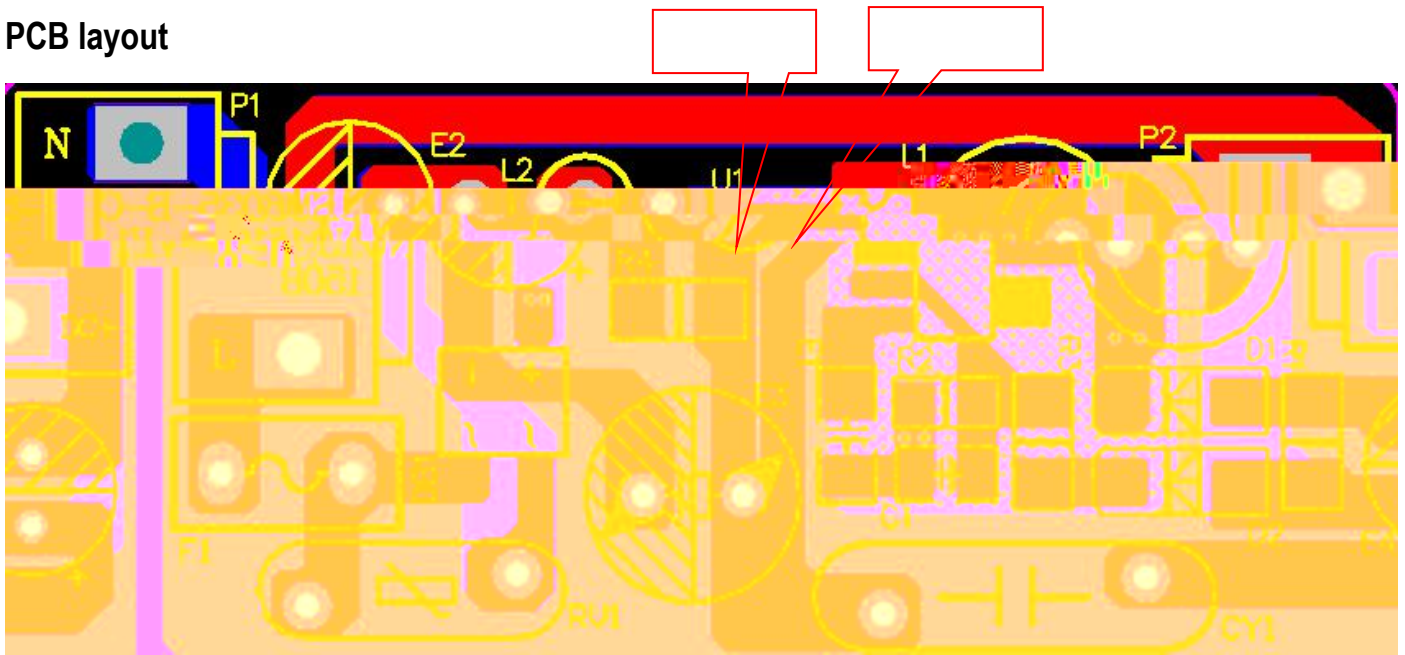


BOM

RV1	7D471	FR1	10R/0.25W	C3	10uF/16V
DB1	MB6F	R2	6.8K/1206	E4	220uF/10V
D1	ES2J	R3	1.5K/0805	L1	1mH-
D2	RS1M	E1 E2	2.2uF/400V	L2	1.2mH-CD75
U1	SM6035-5				

- 1 RV1
- 2 EM L1 R2 E1 E2

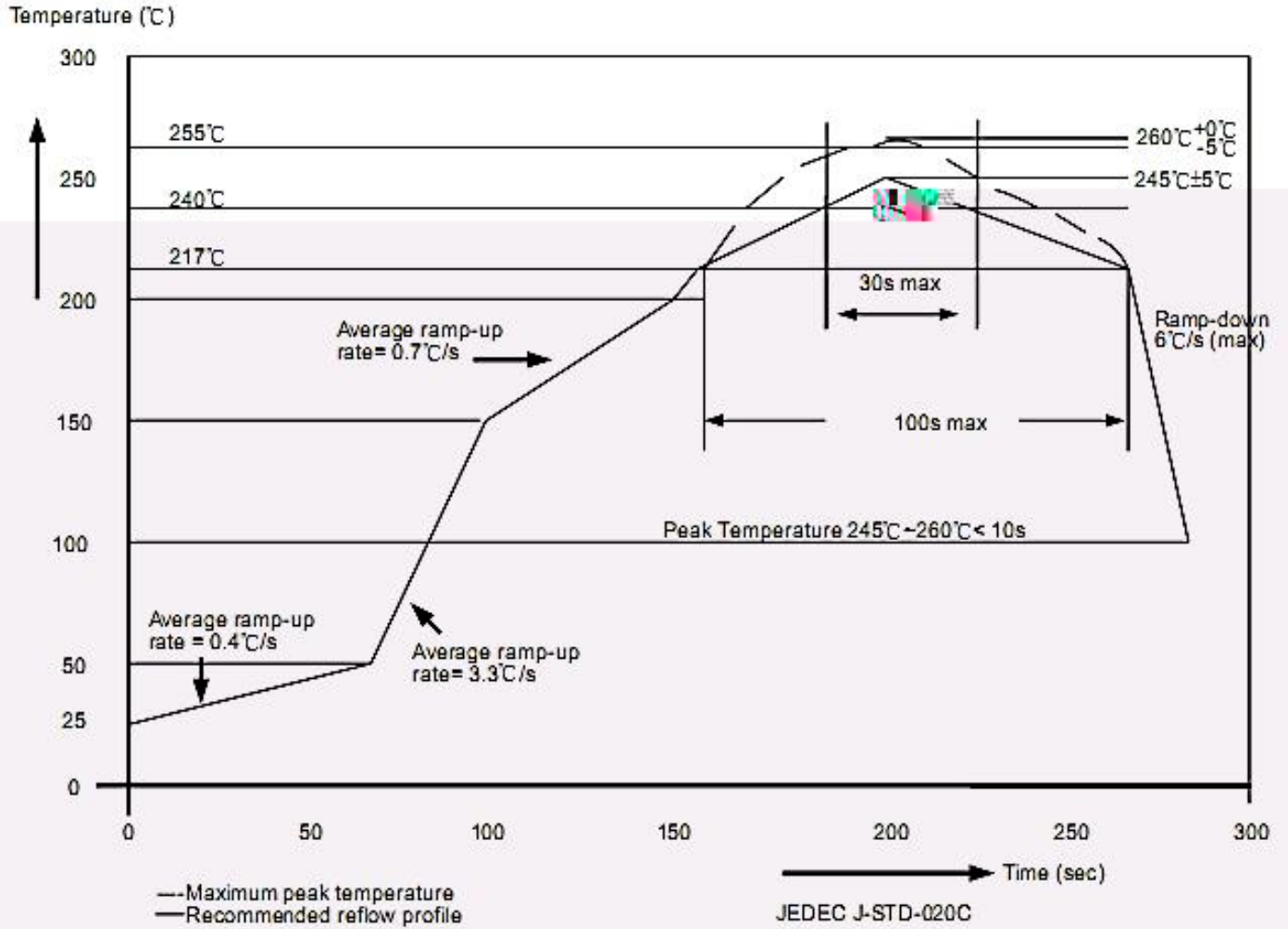
PCB layout



- 1 EMC
- 2
- 3 VDD VDD GND
- 4 IC 7 8 GND 8*8mm

RoHs

J-STD-020

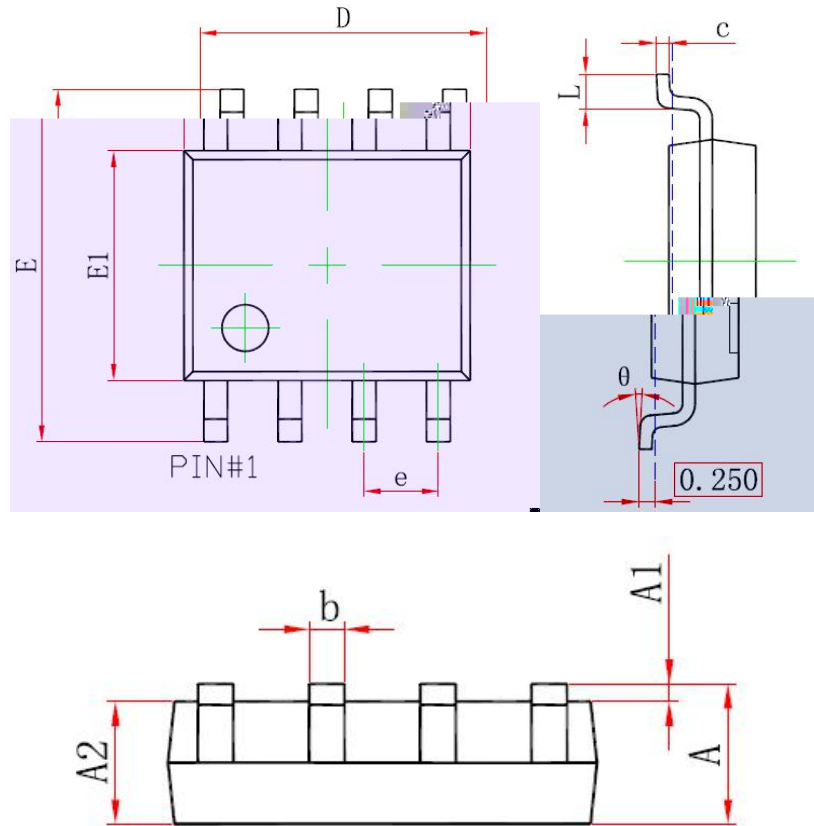


	mm ³ < 350	mm ³ 350-2000	mm ³ 2000
<1.6mm	260+0°C	260+0°C	260+0°C
1.6mm-2.5mm	260+0°C	250+0°C	245+0°C
2.5mm	250+0°C	245+0°C	245+0°C

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SOP8



Symbol	Mn(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
	0°	10°

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