

/ Descriptions

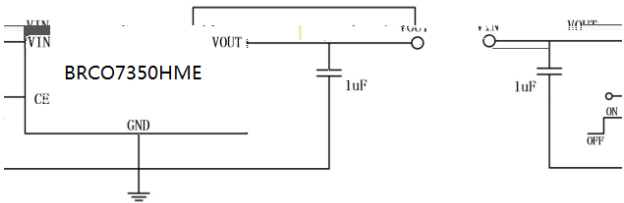
/ Features

- ◆ 30V
- ◆ 300mA
- ◆ 200mV@Iout=100mA
- ◆ 2.5 A
- ◆ 50ppm/
- ◆ 2
- ◆ PSRR 65dB@1kHz
- ◆ SOT23-5

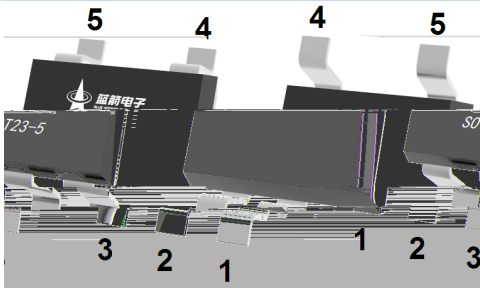
/ Applications

- ◆
- ◆
- ◆

/ Typical Application



/ Pinning



1	V _{IN}		4	NC	
2	GND		5	V _{OUT}	
3	CE				

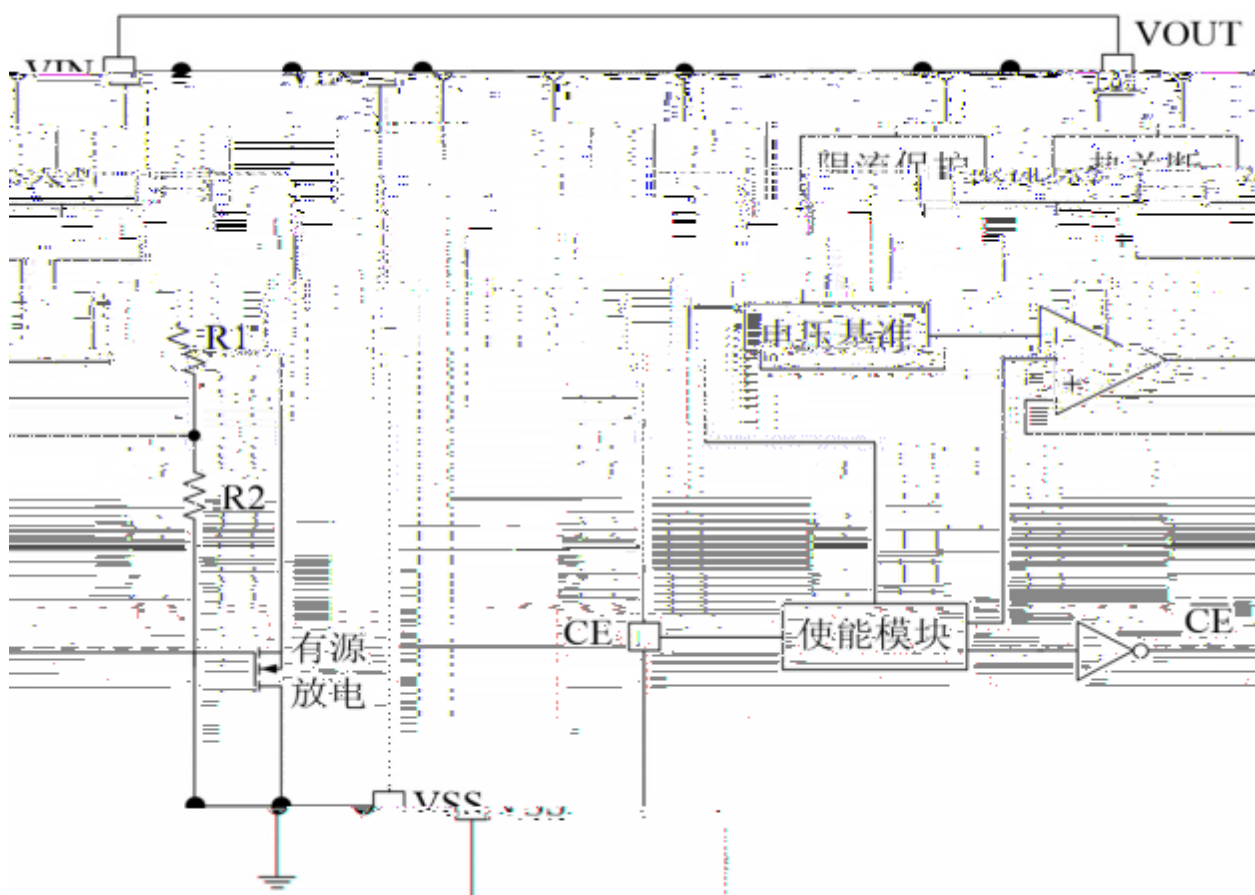
/ Absolute Maximum Ratings($T_A=25^\circ\text{C}$)

	V_{IN_MAX}	30	V
	V_{IN}	-0.3~30	V
CE	V_{CE}	$V_{IN}-0.3\sim V_{IN}+0.3$	V
	I_{OUT}	0~500	mA
	P_D	0.3	W
	T_{stg}	-40 to +150	$^\circ\text{C}$
	T_{OP}	-40 to +85	

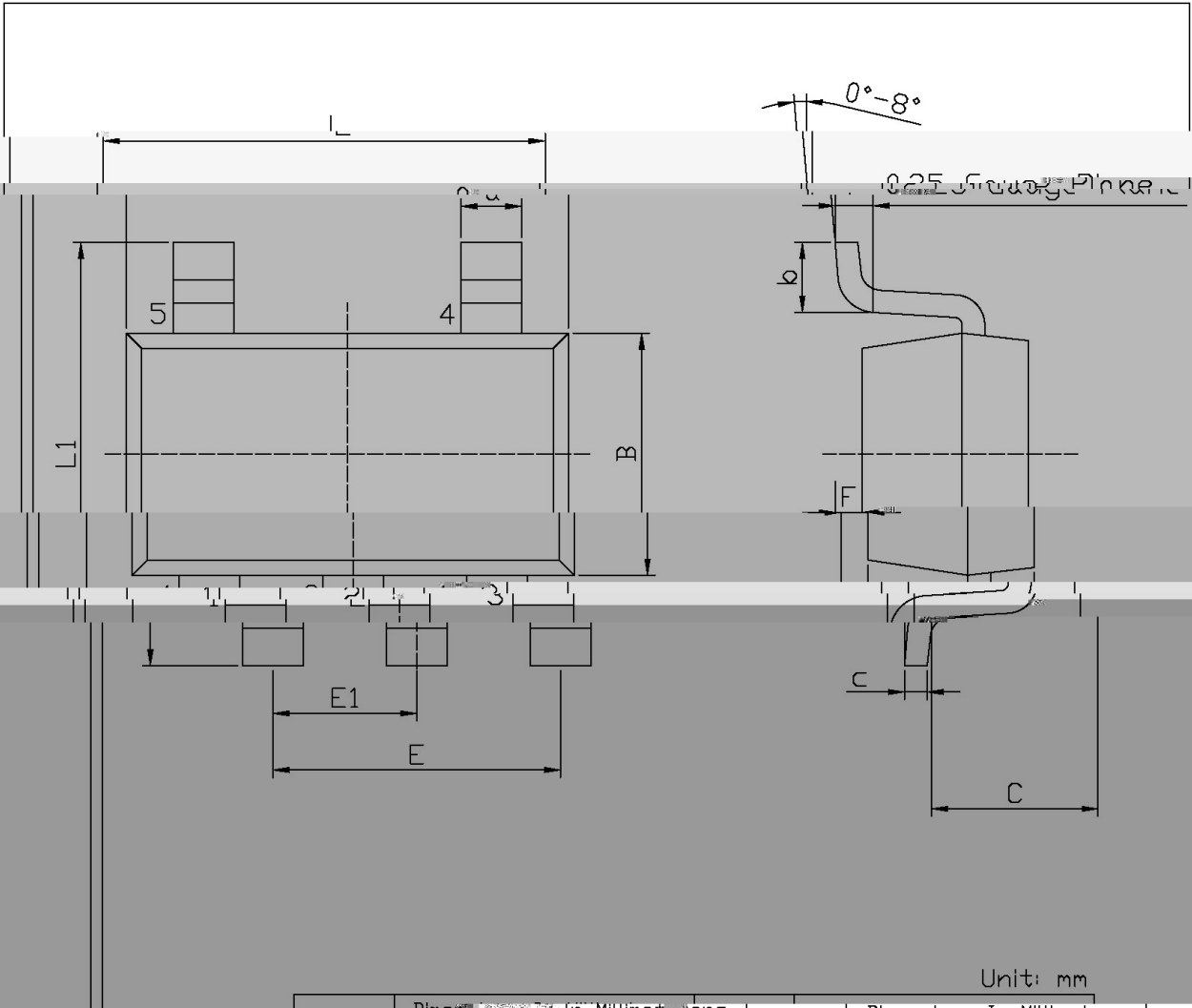
/ Electrical Characteristics($T_A=25^\circ\text{C}$, $V_{IN}=V_{OUT}+1\text{V}$, $C_{IN}=C_{OUT}=1\mu\text{F}$, unless otherwise specified)

	V_{IN}		2.5		24	
	V_{OUT}	$I_{OUT}=10\text{mA}$	$V_{OUT}\times 0.98$		$V_{OUT}\times 1.02$	
	I_{SS}	$I_{OUT}=0\text{mA}$	-	2.5	6	
	I_{ST}	$CE=0\text{V}$			0.2	
	L_{LIM}	-	500			
	V_{DROP}	$I_{OUT}=100\text{mA}$	-	200	-	
	I_{SHORT}			55		
	V_{CE_L}				0.4	
	V_{CE_H}		1.5			
	R_{DIS}	$V_{CE}<0.4\text{V}$		350		
	ΔV_{LOAD}	$V_{IN}=V_{OUT}+1$ $1\text{mA}\leq I_{OUT}\leq 100\text{mA}$	-	5	20	
	ΔV_{LINE}	$I_{OUT}=10\text{mA}$ $V_{OUT}+1\text{V}\leq V_{IN}\leq 20\text{V}$	-	0.05	-	
	$\Delta V_{OUT}/$ $(\Delta T_A\times V_{OUT})$	$I_{OUT}=1\text{mA}$ $-40^\circ\text{C}\leq T_A\leq +85^\circ\text{C}$	-	± 50	-	
	PSRR	$V_{IN}=4.3\text{V}$	$f=100\text{Hz}$	-	80	-
		$V_{OUT}=3.3\text{V}$	$f=1\text{kHz}$	-	65	-
		$I_{OUT}=10\text{mA}$	$f=10\text{kHz}$	-	50	-
	T_{SD}		-	160	-	
	ΔT_{SD}		-	25	-	

/ Functionl Block Diagram



/ Package Dimensions



Unit: mm

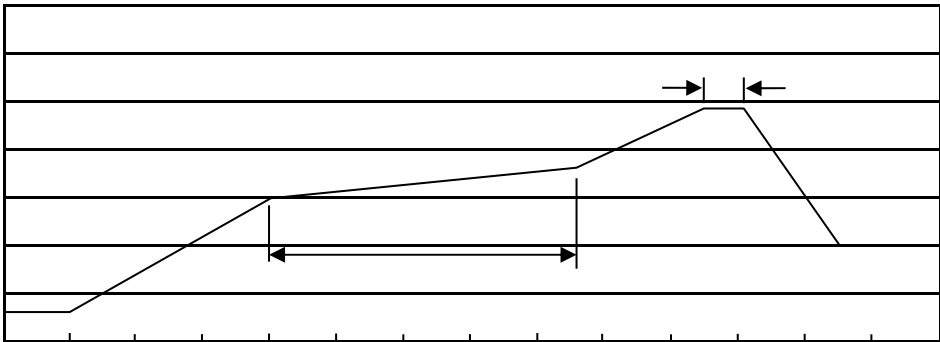
Symbol	Dimensions in Millimeters		Symbol	Dimensions in Millimeters	
	Min	Max		Min	Max
L	2.82	3.02	E1	0.85	1.05
B	1.50	1.70	a	0.35	0.50
C	0.90	1.30	c	0.10	0.20

L1	2.60	3.00	b	0.35	0.55
E	1.80	2.00	F	0	0.15

/ Marking Instructions



() / Temperature Profile for IR Reflow Soldering(Pb-Free)



Note:

- 1

150 180

60 90sec;

1.Preheating:150~180 , Time:60~90sec.
- 2

245 5

5 0.5sec;

2.Peak Temp.:245 5 , Duration:5 0.5sec.
- 3

2 10

/sec.

3. Cooling Speed: 2~10 /sec.

/ Resistance to Soldering Heat Test Conditions

260 5 10 1 sec. Temp.:260±5 Time:10±1 sec

/ Packaging SPEC.

/ REEL

Package Type	Units					Dimension (unit mm ³)		
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Reel	Inner Box	Outer Box
SOT23-5/6	3,000	10	30,000	4	120,000	7" ×8	210×205×205	445×435×230

/ Notices

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