

/ Descriptions

BRC07330HME	CMOS		
300mA		30V	CMOS

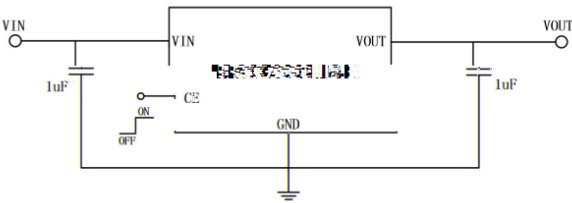
/ Features

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

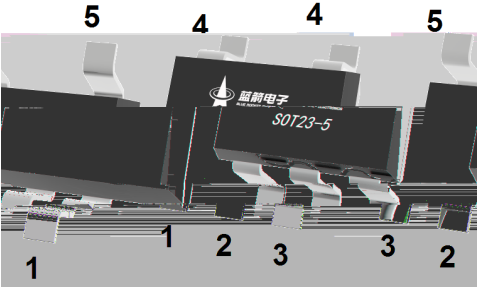
/ Applications

- ◆
- ◆
- ◆

/ Typical Application



/ Pinning



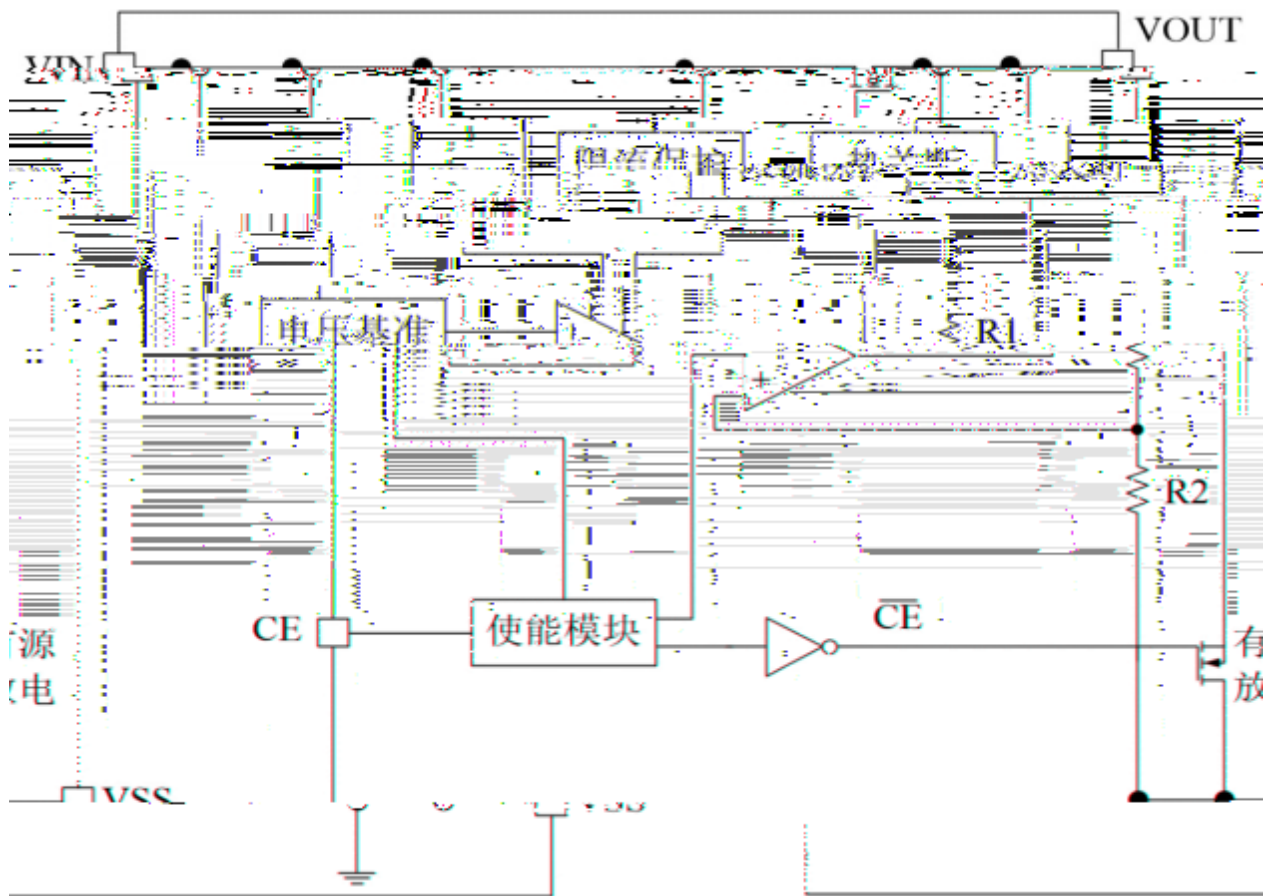
1	V _{IN}		4	NC	
2	GND		5	V _{OUT}	
3	CE				

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

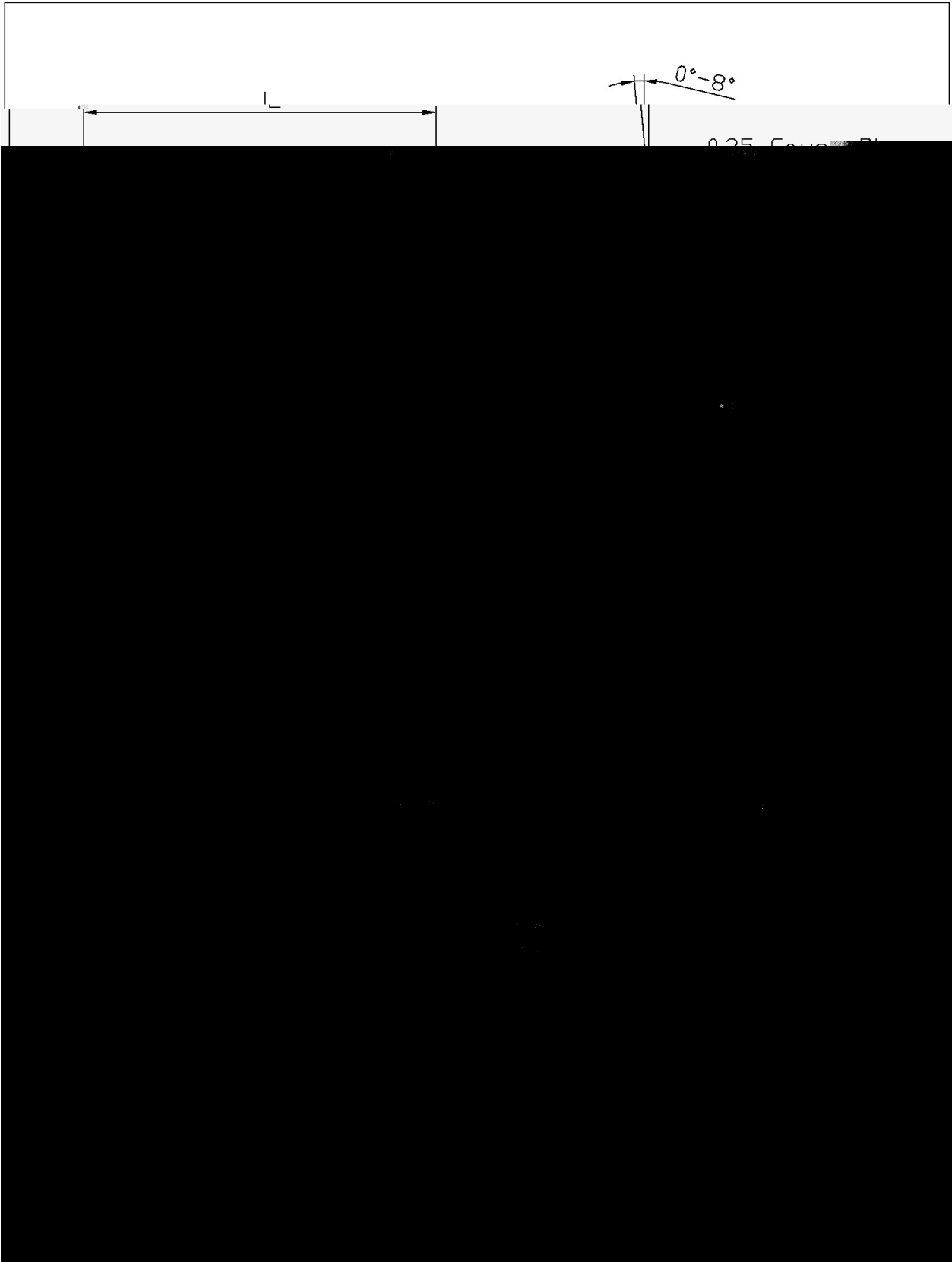
	V_{IN_MAX}	30	V
	V_{IN}	-0.3~30	V
CE	V_{CE}	$V_{IN}-0.3\sim V_{IN}+0.3$	V
	I_{OUT}	0~500	mA
	P_D	0.3	W
	T_{stg}	-40 to +150	$^\circ\text{C}$
	T_{OP}	-40 to +85	

/ 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
	V_{OUT}	$I_{OUT}=10\text{mA}$	$V_{OUT} \times 0.98$		$V_{OUT} \times 1.02$	V
	I_{SS}	$I_{OUT}=0\text{mA}$	-	2.5	6	μA
	I_{ST}	CE=0V			0.2	μA
	I_{LIM}	-	500			mA
	V_{DROP}	$I_{OUT}=100\text{mA}$	-	200	-	mV
	I_{SHORT}			55		mA
	V_{CE_L}				0.4	V
	V_{CE_H}		1.5			V
	R_{DIS}	$V_{CE} = 0.4\text{V}$		350		Ω
	V_{LOAD}	$V_{IN}=V_{OUT}+1$ $1\text{mA} \leq I_{OUT} \leq 100\text{mA}$	-	5	20	mV
	V_{LINE}	$I_{OUT}=10\text{mA}$ $V_{OUT}+1\text{V} \leq V_{IN} \leq 20\text{V}$	-	0.05	-	%/V
	$V_{OUT}/$ ($T_A \times V_{OUT}$)	$I_{OUT}=1\text{mA}$ $-40 \leq T_A \leq +85$	-	± 50	-	ppm/
	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	-	
	T_{SD}		-	25	-	

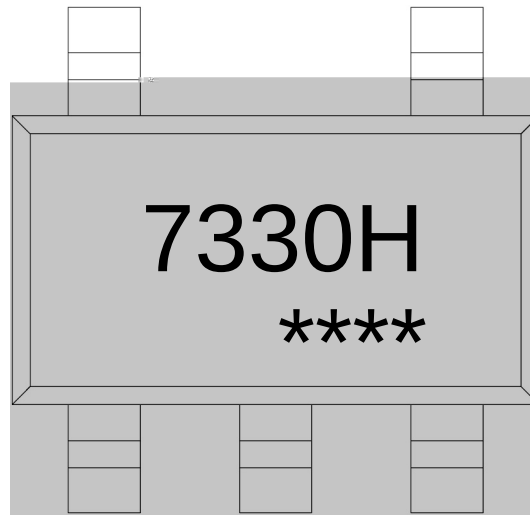


/ Package Dimensions





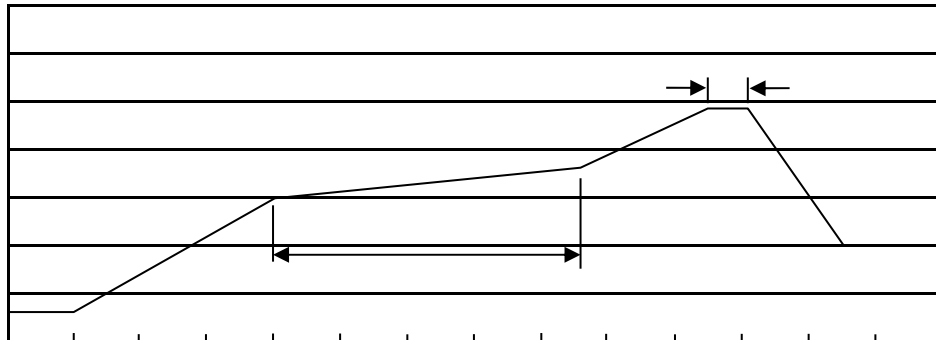
/ Marking Instructions



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Note:

- 1 150 180 60 90sec;
- 2 245±5 5±0.5sec;
- 3 2 10 /sec.

- 1.Preheating:150~180 , Time:60~90sec.
- 2.Peak Temp.:245±5 , Duration:5±0.5sec.
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

All information provided in this document is subject to legal disclaimers.