

/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating	Unit
Input voltage	V_I	36	V
Output current($V_I=8V$)	I_O	100	mA
Operating virtual Junction temperature	T_J	0 125	
Power Dissipation	P_D	500	mW
Storage temperature range	T_{stg}	-65 150	
Thermal resistance junction-ambient	$R_{\theta JA}$	200	/W

/ Electrical Characteristics(Ta=25 $V_I=10V, I_O=40mA$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Output voltage	V_O	$I_O=40mA$ $T_J=25$	4.80	5.0	5.2	V
		$I_O=1mA$ to 40mA $V_I=7V$ to 20V	4.75	5.0	5.25	V
		$I_O=1mA$ to 70mA $V_I=10V$	4.75	5.0	5.25	V
Input regulation	V_O	$V_I=7V$ to 20V $T_J=25$		32	150	mV
		$V_I=8V$ to 20V $T_J=25$		26	100	mV
Output regulation	V_O	$I_O=1mA$ to 100mA $T_J=25$		15	60	mV
		$I_O=1mA$ to 40 mA $T_J=25$		8	30	mV
Ripple rejection	RR	$V_I=8V$ to 18V $f=120Hz$ $T_J=25$	41	49		dB
Output noise voltage	V_N	$f=10Hz\sim 100KHz$ $T_J=25$		42		μV
Dropout voltage	V_D	$T_J=25$		2		V
Bias current	I_Q	$T_J=25$		1	6	mA
		$T_J=125$			5.5	mA
Bias current change	I_Q	$V_I=8V$ to 20V			1.5	mA
		$I_O=1mA$ to 40mA			0.1	mA

/ Electrical Characteristic Curve

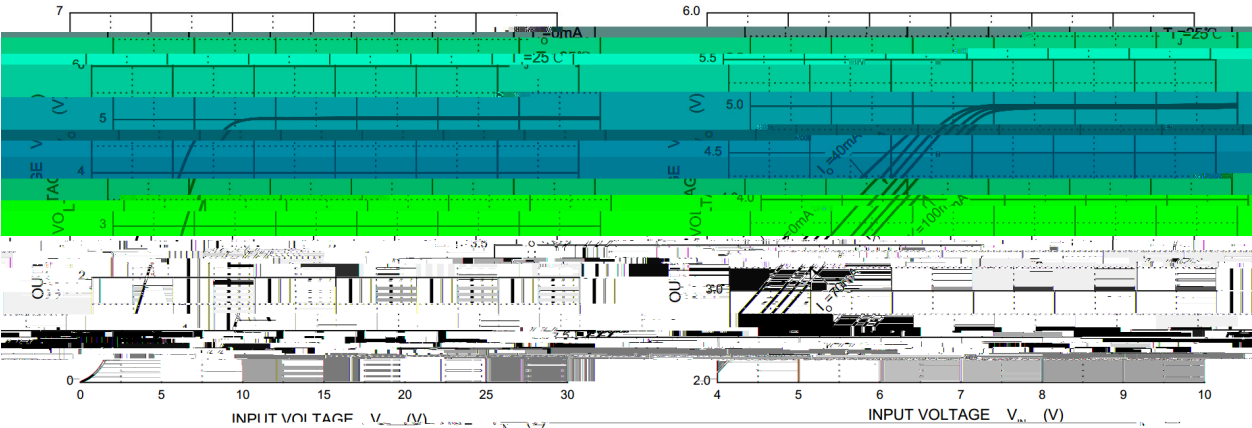
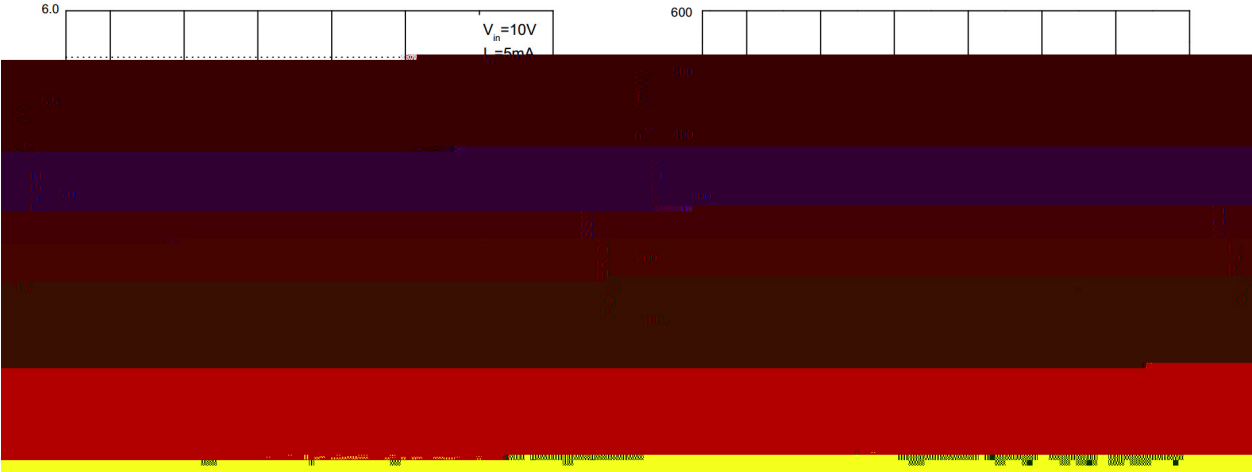
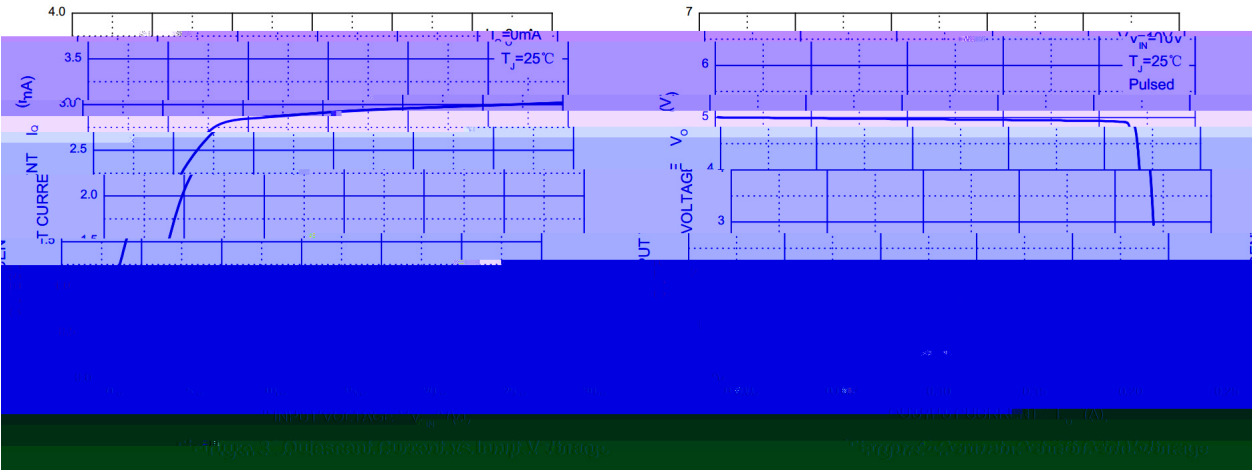


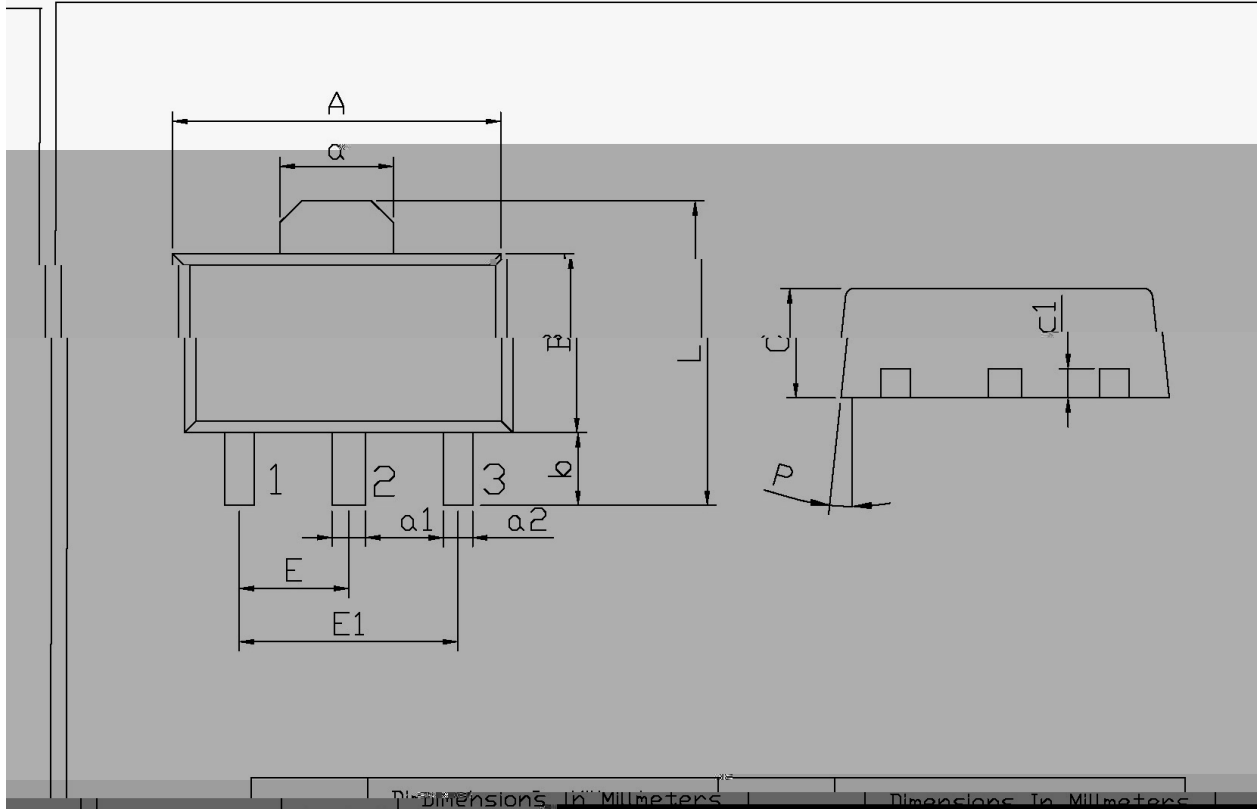
Figure 1. Output Characteristics

Figure 2. Dropout Characteristics

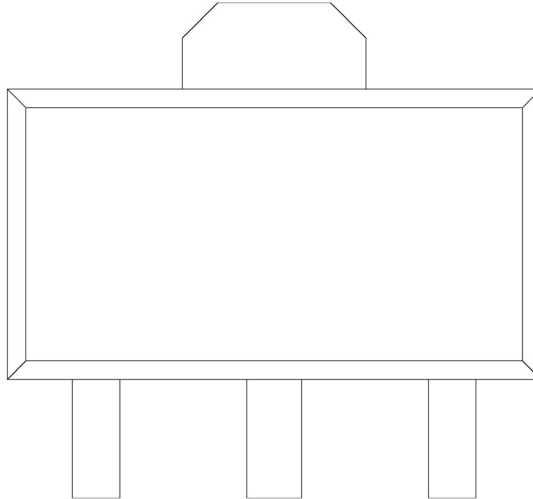


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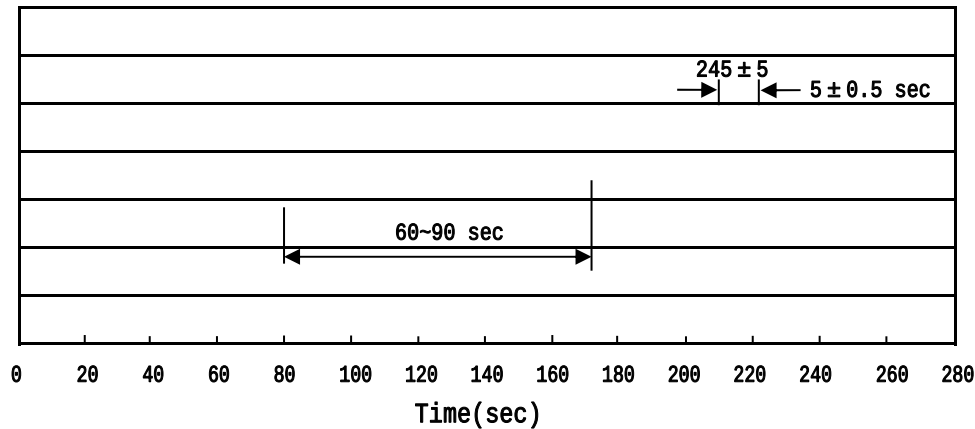


/ Marking Instructions



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() / 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
SOT-89	1,000	7	7,000	6	42,000	7 ×12	180×120×180	390×385×205

/ Notices