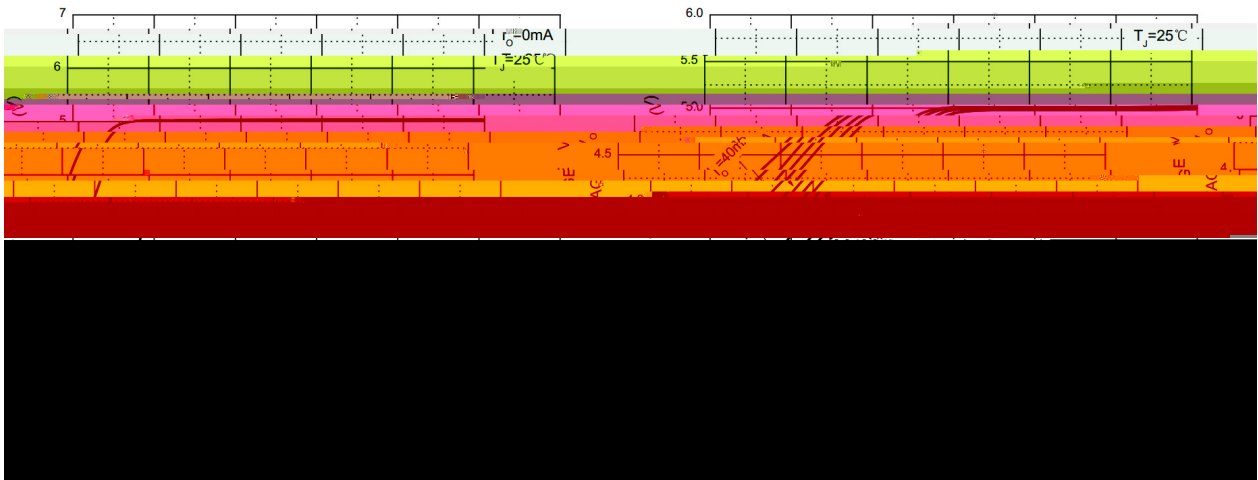


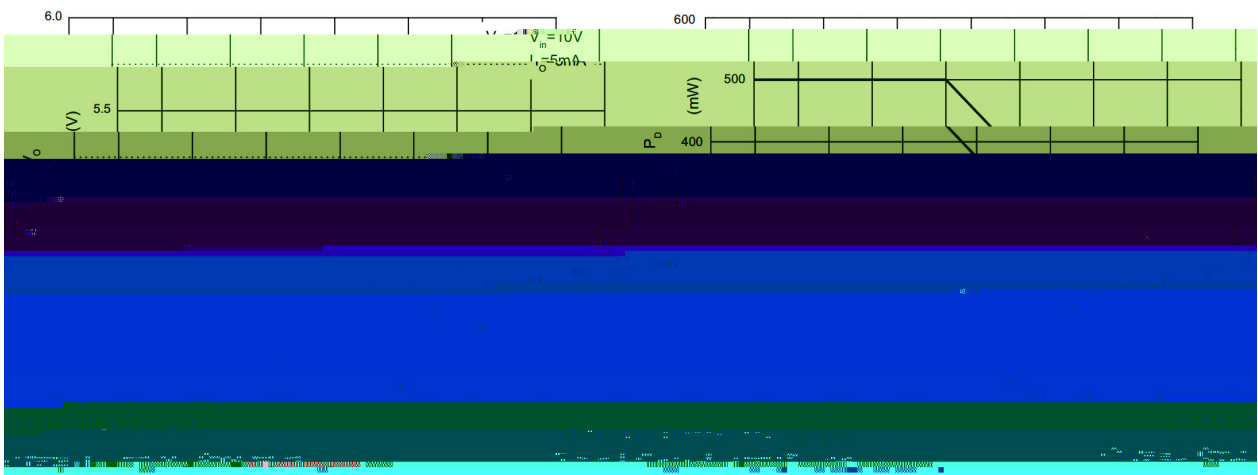
Parameter	Symbol	Rating	Unit
Input voltage	V_I	36	V
Output current($V_I=8V$)	I_O	100	mA
Operating virtual Junction temperature	T_J	0 125	
Power Dissipation	P_D	500	mW
Storage temperature range	T_{stg}	-65 150	
Thermal resistance junction-ambient	R_{JA}	200	/W

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

/ Electrical Characteristic Curve



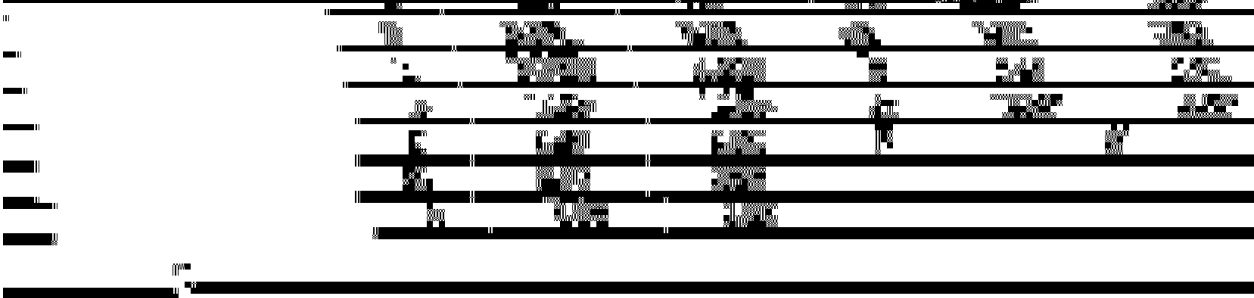
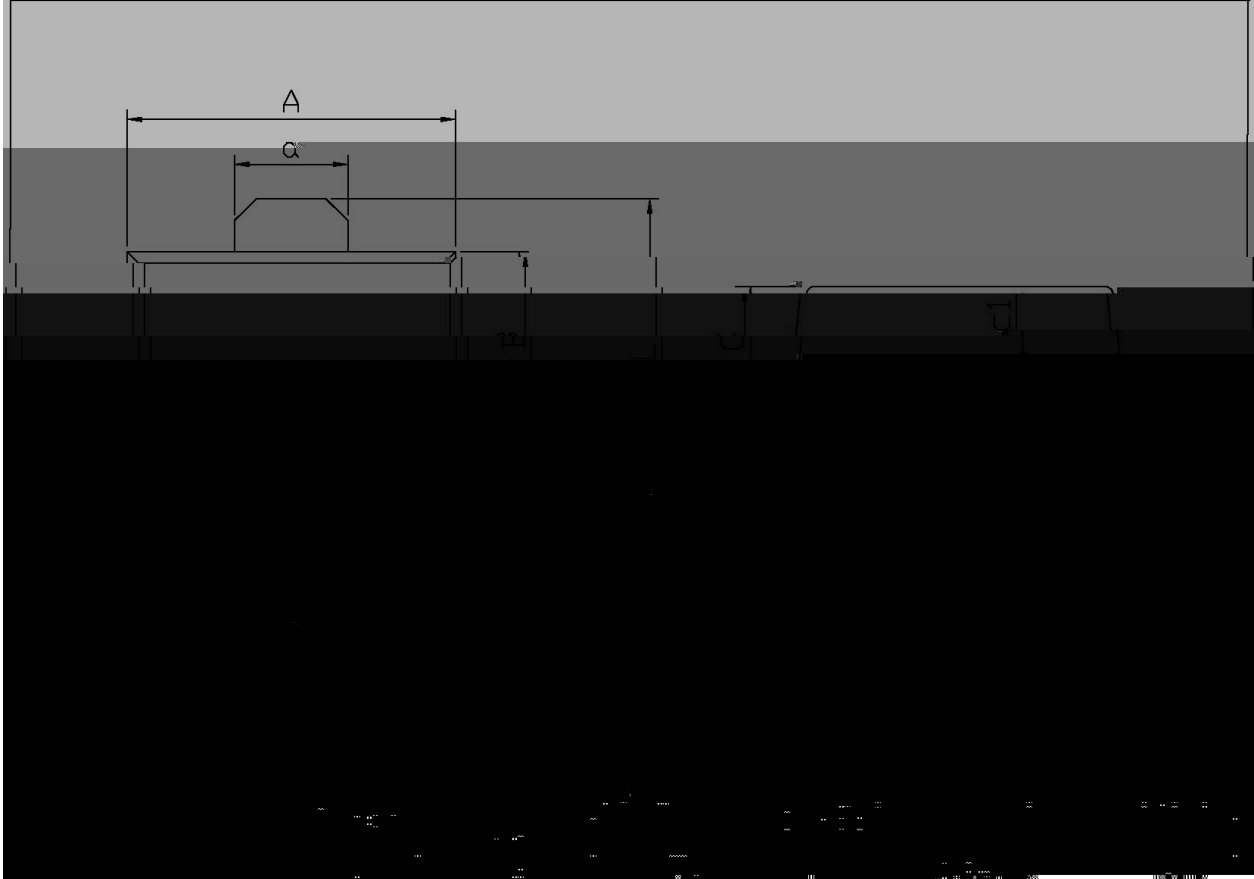
This figure displays two graphs illustrating the output voltage regulation of the 78L05AT. The left graph shows the output voltage V_o (V) versus the input voltage V_i (V) for a constant load current $I_o = 0\text{mA}$ and a junction temperature $T_j = 25^\circ\text{C}$. The right graph shows the output voltage V_o (V) versus the load current I_o (mA) for a constant input voltage $V_i = 7\text{V}$ and a junction temperature $T_j = 25^\circ\text{C}$. Both graphs show a highly stable output voltage around 5.0V.



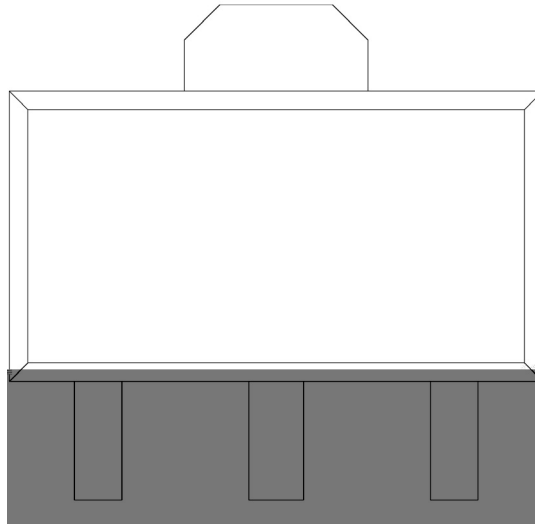
/ Package Dimensions

SOT-89

单位: mm



/ Marking Instructions



H
L05

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

- | | | | | | |
|---|-------|-----|-------|--------|---|
| | | | | | |
| 1 | 150 | 180 | 60 | 90sec; | Note: 1.Preheating:150~180 , Time:60~90sec. |
| 2 | 245±5 | | 5±0.5 | sec; | 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
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/ REEL

Package Type	Units	Dimension (unit mm ³)
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