TO-92 Voltage Regulator in a TO-92 Plastic Package.

100mA,

3-Terminal regulators, output current up to 100 mA, internal thermal overload protection and short-circuit limiting.

Voltage Regulator.

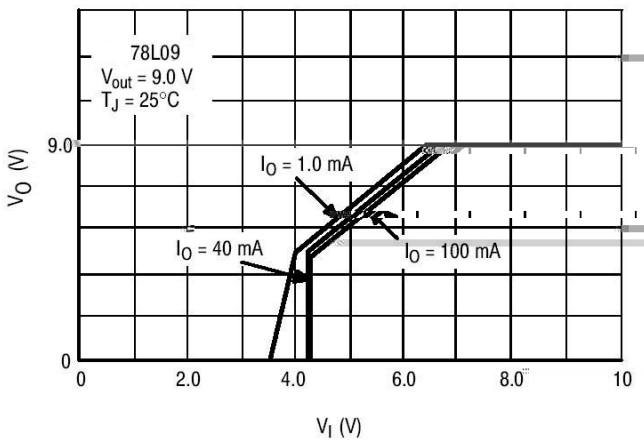
/ / Equivalent Circuit or Application Circuit

Parameter	Symbol	Rating	Unit
Input voltage	V_I	30	V
Output current	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	

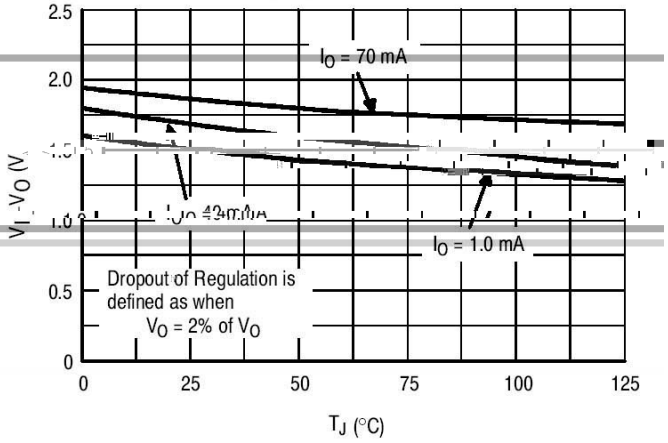
Parameter	Symbol	Test Conditions	Min	Ty	Max	Unit
Output voltage	V_O	I_o 40mA T_j=25	8.64	9	9.36	V
		I_O=1mA to 40mA V_I=11.5V to 23V	8.55	9	9.45	V
		I_O=1mA to 70mA V_I=15V	8.55	9	9.45	V

/ Electrical Characteristic Curve

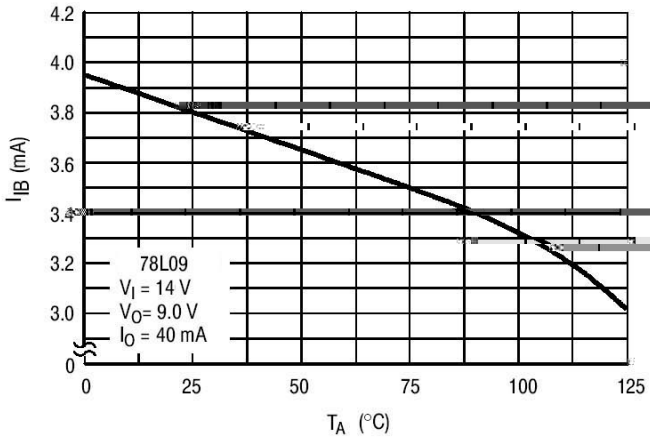
V_O — V_I



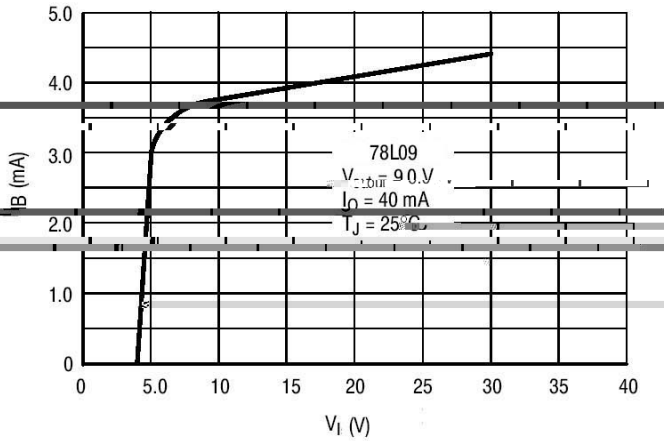
$V_I - V_O$ — T_J



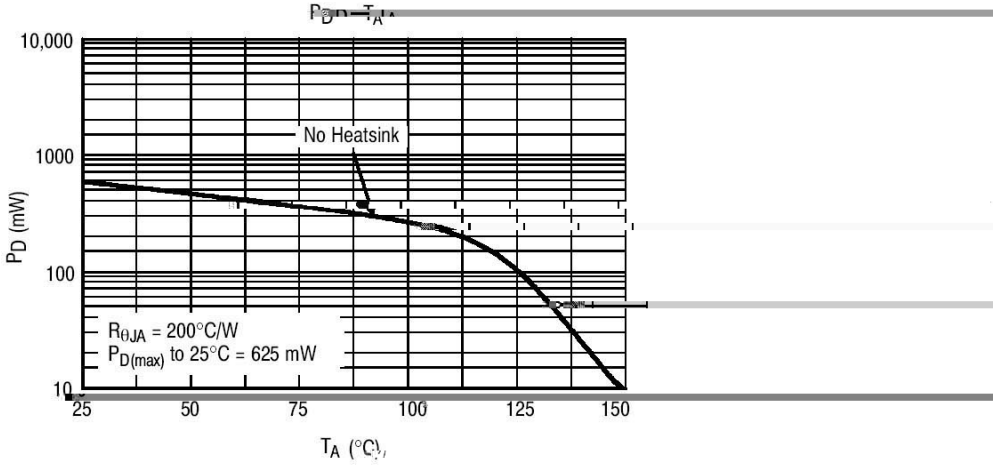
I_{IB} — T_A



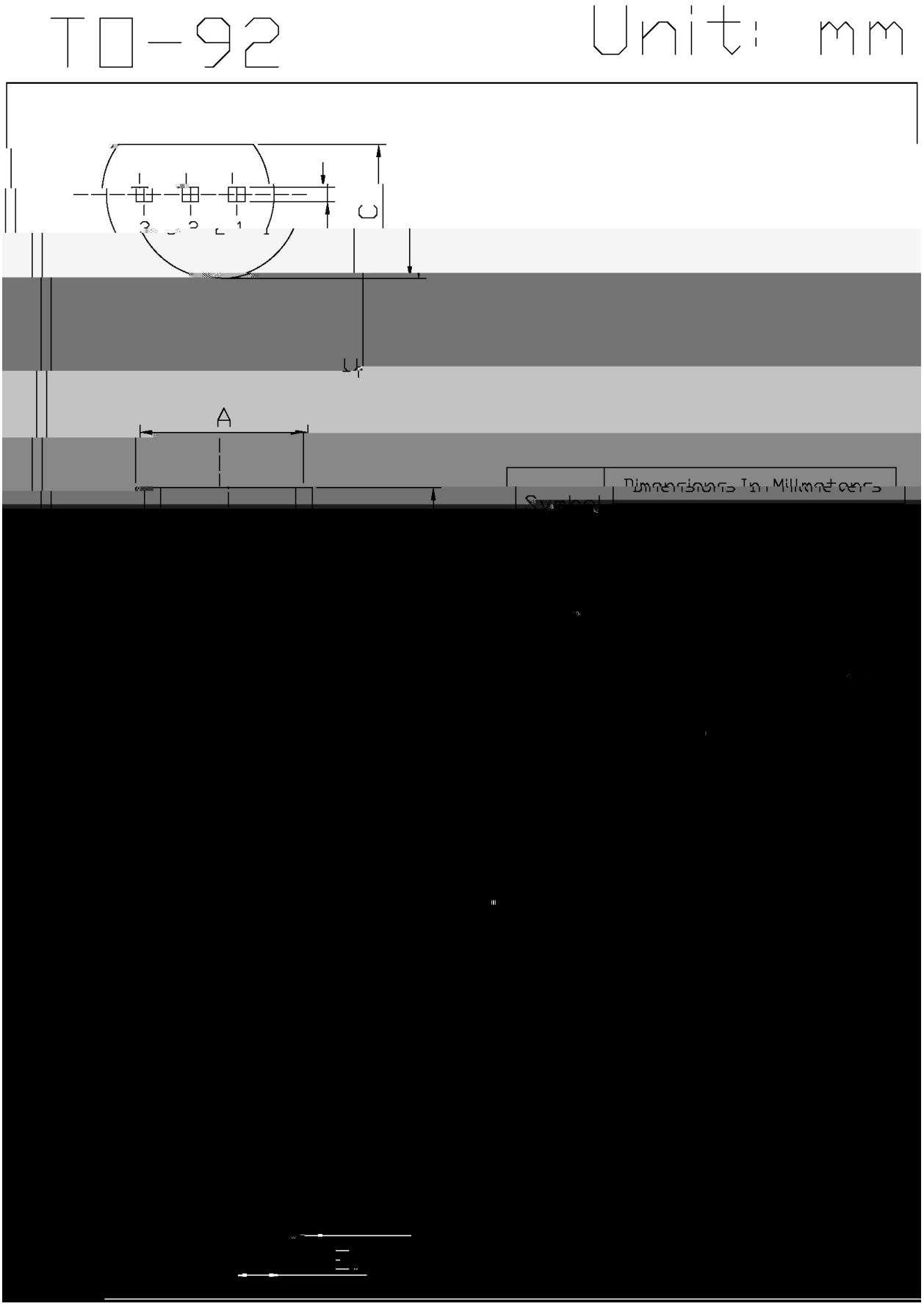
I_{IB} — V_I



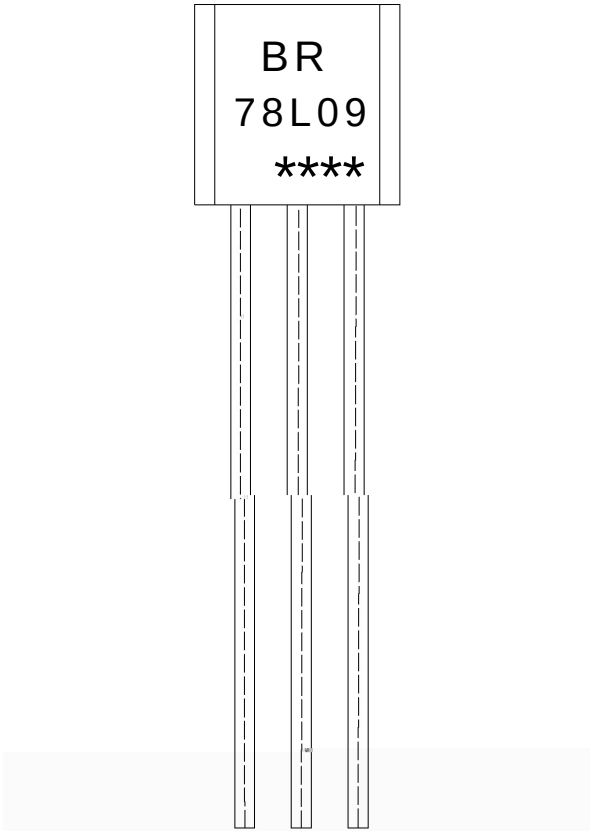
P_D — T_A



/ Package Dimensions



/ Marking Instructions



BR

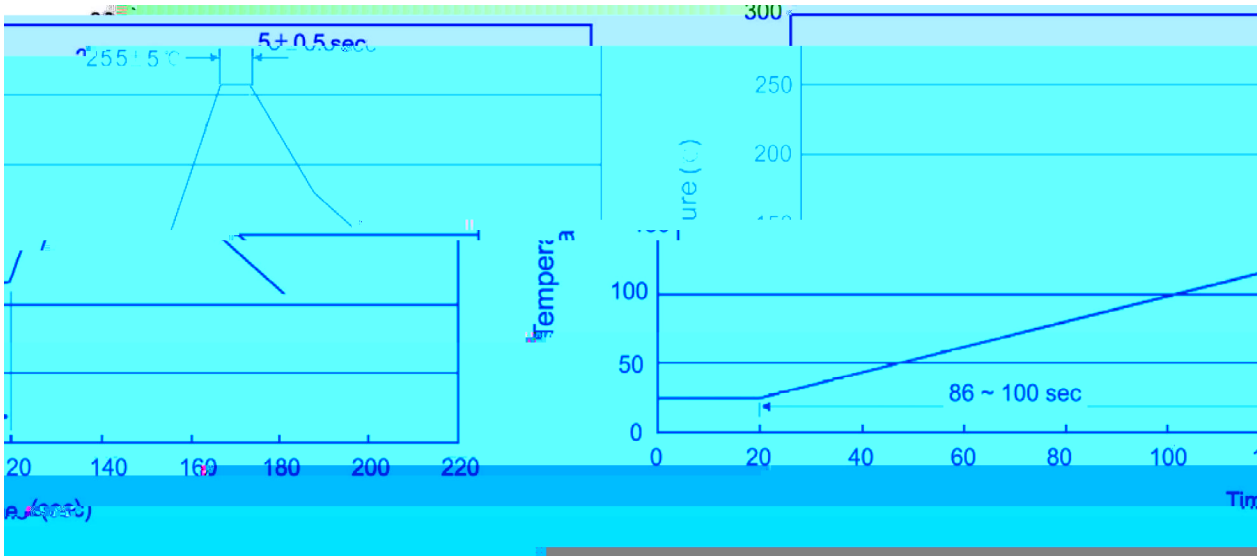
78L09

****

Note:

BR:	Company Code.
78L09:	Product Type.
****:	Lot No. Code, code change with Lot No.

( ) / Temperature Profile for Dip Soldering(Pb-Free)



				Note:	
1	25 150		60 90sec;	1.Preheating:25~150	, Time:60~90sec.
2	255±5		5±0.5sec;	2.Peak Temp.:255±5	, Duration:5±0.5sec.
3		2 10	/sec.	3. Cooling Speed: 2~10	/sec.

/ Resistance to Soldering Heat Test Conditions

270±5	10±1 sec.	Temp:270±5	Time:10±1 sec

/ Packaging SPEC.

/ BULK

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm3)		
	Units/Bag 只/袋	Bags/Inner Box 袋/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Bag 袋	Inner Box 盒	Outer Box 箱
TO-92	1,000	10	10,000	5	50,000	135×190	237×172×102	560×245×195
	1,000	10	10,000	10	100,000	135×190	237×172×102	560×245×375

/ AMMO

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm3)	
	Units/tape 只/纸带	Tape/Inner Box 纸带/盒	Rows/Inner Box 纸带层/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Inner Box 盒	Outer Box 箱
TO-92	3,000	1	120	10	30,000	328×230×42	小箱 480×346×235， 大箱 547×407×268

/ Notices