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: 5 .> // x 9 ² ... ~ož Voltage Regulator in a TO-92 Plastic Package.

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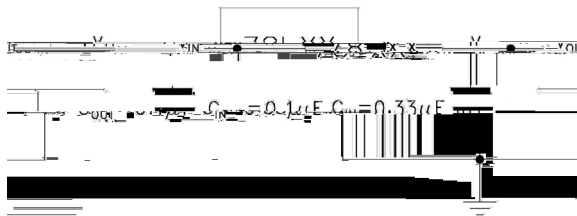
3-Terminal regulators ,output current up to 100 mA, internal thermal overload protection and short-circuit limiting.

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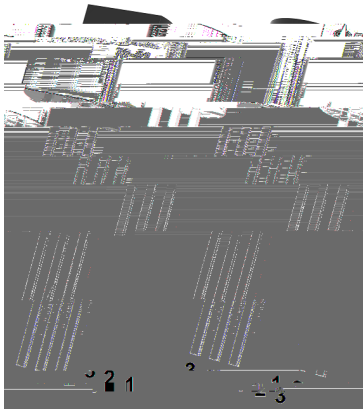
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Voltage Regulator.

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PIN1 y IN

PIN 2 y GND

PIN 3 y OUT

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See Marking Instructions.

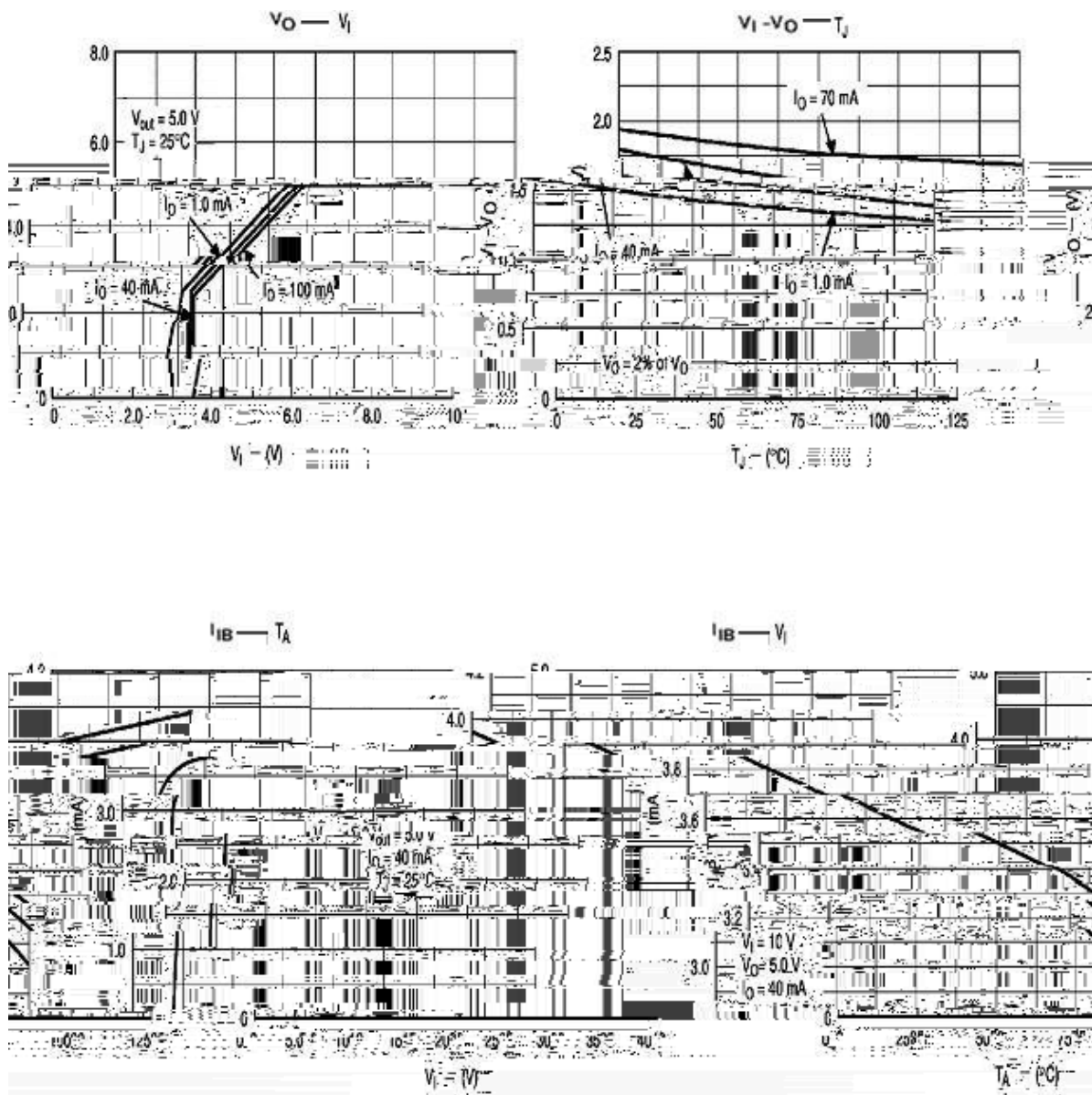
表 1 主要电气特性

Parameter	Symbol	Rating	Unit
Input voltage	V_I	30	V
Output current	I_O	100	mA
Operating Temperature Range	T_{OPR}	-40 ~ 125	
Power Dissipation	P_D	500	mW
Storage temperature range	T_{stg}	-65 ~ 150	

表 2 典型性能指标

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Output voltage	V_O	$I_O \leq 40mA$ $T_j=25$	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	ΔV_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	ΔV_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	$f=10Hz-100KHz$ $T_j=25$		42		μV
Dropout voltage	V_D	$T_j=25$		1.7		V
Bias current	I_Q	$T_j=25$		3.8	6	mA
		$T_j=125$			5.5	mA
Bias current change	ΔI_Q	$V_I=8V$ to 20V			1.5	mA
		$I_O=1mA$ to 40mA			0.1	mA

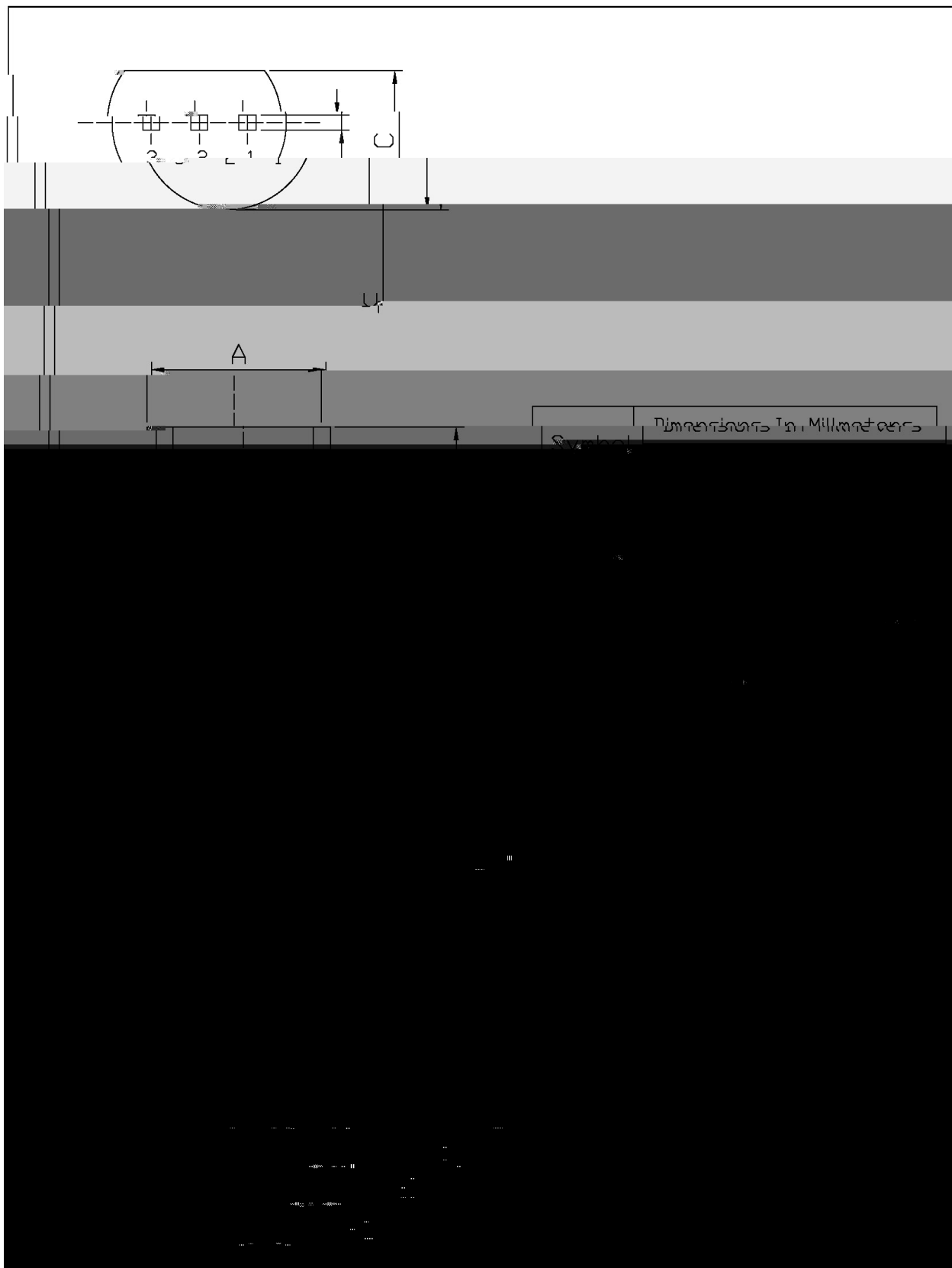
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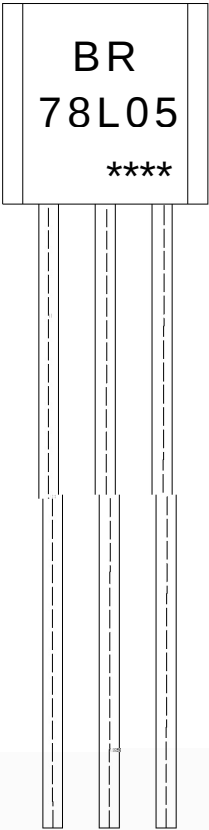
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T0-92

Unit: mm



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Note:
BR: Company Code
78L05: Product Type
****: Lot No. Code, code change with Lot No

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- 1o• Ä ½ “† 25 ½150 - k ž • 60 ½90sec;
- 2o• Q > “† 255 r5 - k ž • 4 Ò 5 r0.5sec;
- 3o•D N ò i Ò 0 ,† 2 ½10 - /sec.

Note:

- 1.Preheating:25~150 - , Time:60~90sec.
- 2.Peak Temp.:255 r5 - , Duration:5 r0.5sec.
3. Cooling Speed: 2~10 - /sec.

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“†y 270 r5 - ž • y 10 r1 sec.

Temp.:270±5

Time:10±1 sec

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