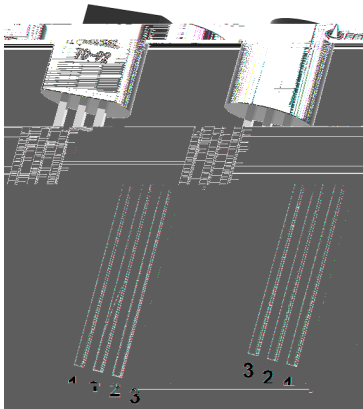
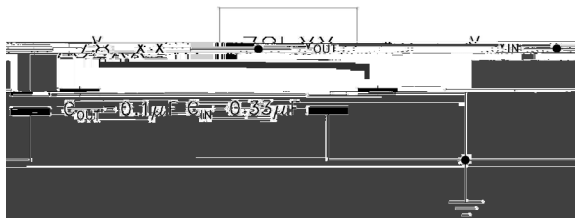


TO-92 Voltage Regulator in a TO-92 Plastic Package.

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

Voltage Regulator.

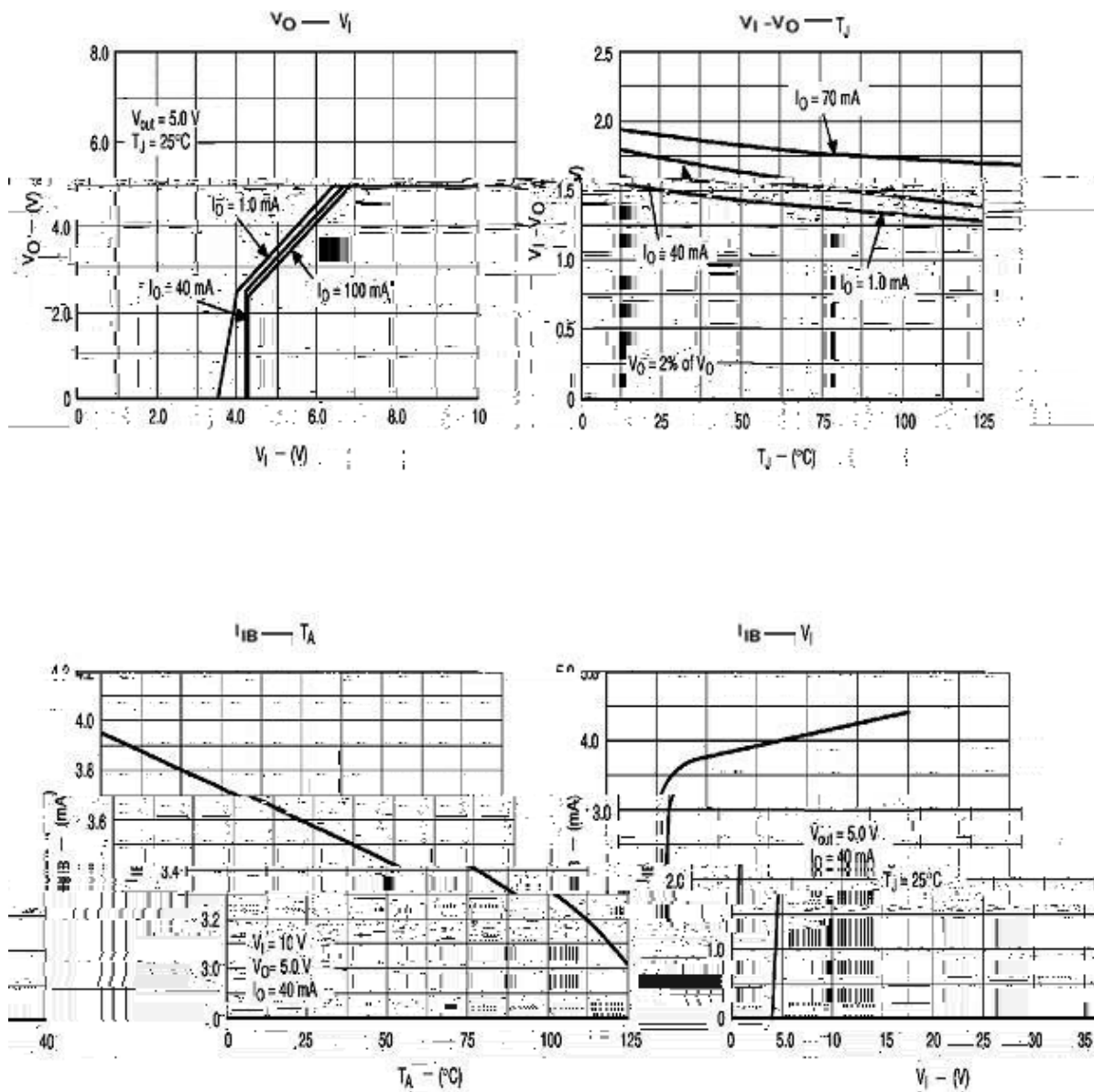


PIN1 IN PIN 2 GND PIN 3 OUT

See Marking Instructions.

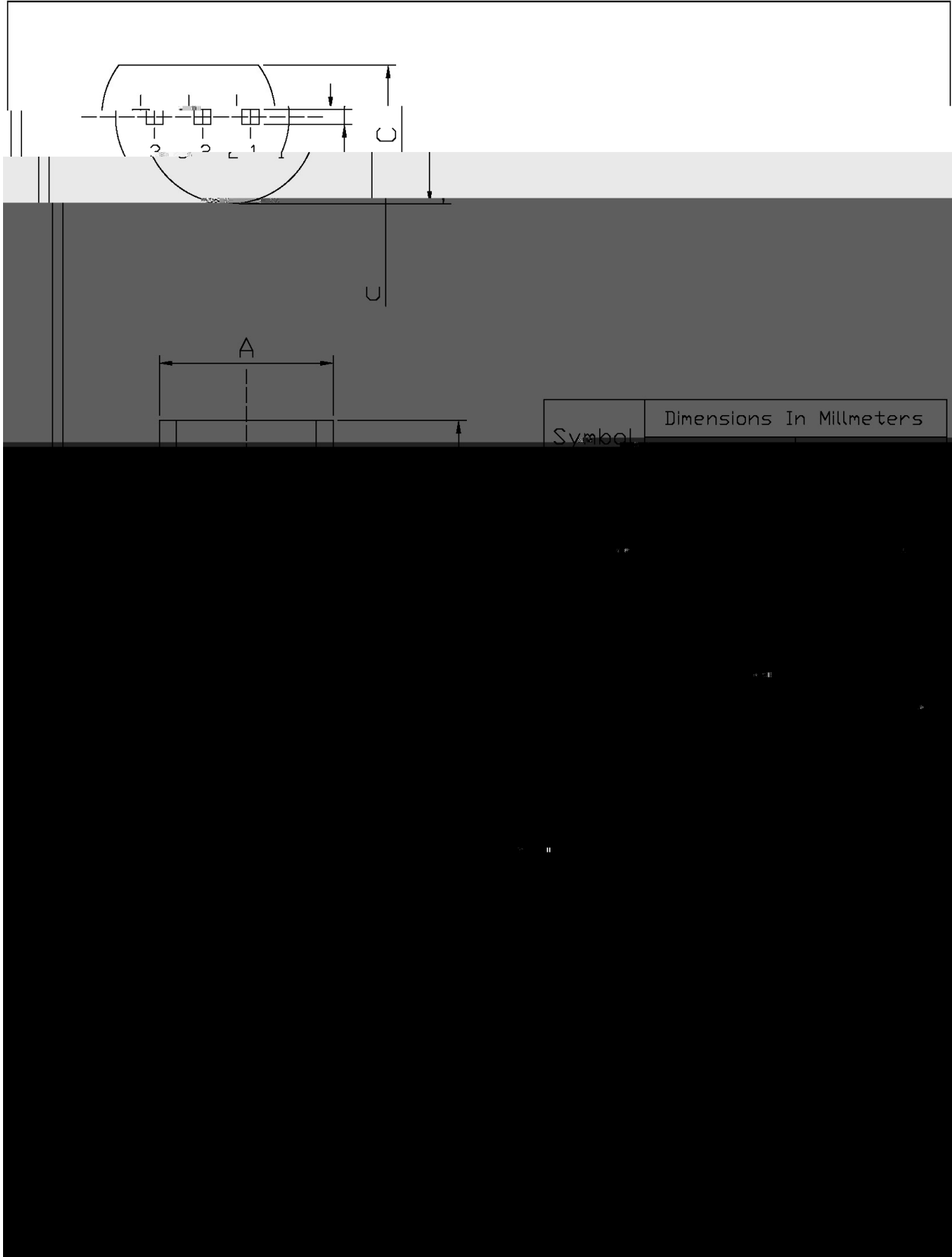
Parameter	Symbol	Rating	Unit
Input voltage	V_I	30	V
Output current	I_O	100	mA
Operating Temperature Range	T_{OPR}	-40~125	
Power Dissipation	P_D	500	mW
Storage temperature range	T_{stg}	-65~150	

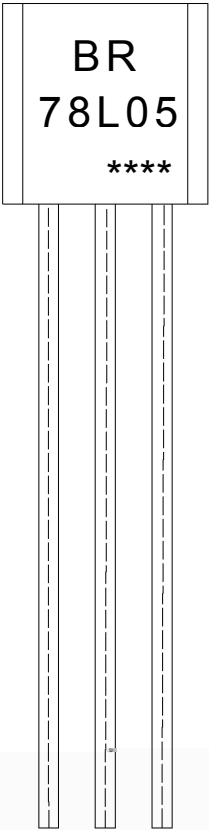
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Output voltage	V_O	$I_O=40mA$ $T_J=25^{\circ}C$	4.80	5.0	5.2	V
		$I_O=1mA$ to 40mA $V_I=7V$ to 20V	4.75	5.0	5.25	V
		$I_O=1mA$ to 70mA $V_I=10V$	4.75	5.0	5.25	V
Input regulation	ΔV_O	$V_I=7V$ to 20V $T_J=25^{\circ}C$		32	150	mV
		$V_I=8V$ to 20V $T_J=25^{\circ}C$		26	100	mV
Output regulation	ΔV_O	$I_O=1mA$ to 100mA $T_J=25^{\circ}C$		15	60	mV
		$I_O=1mA$ to 40 mA $T_J=25^{\circ}C$		8	30	mV
Ripple rejection	RR	$V_I=8V$ to 18V $f=120Hz$ $T_J=25^{\circ}C$	41	49		dB
Output noise voltage	V_N	$f=10Hz-100KHz$ $T_J=25^{\circ}C$		42		μV
Dropout voltage	V_D	$T_J=25^{\circ}C$		1.7		V
Bias current	I_Q	$T_J=25^{\circ}C$		3.8	6	mA
		$T_J=125^{\circ}C$			5.5	mA
Bias current change	ΔI_Q	$V_I=8V$ to 20V			1.5	mA
		$I_O=1mA$ to 40mA			0.1	mA



T0-92

Unit: mm





BR

78L05

Note:

BR: Company Code

78L05: Product Type

****: Lot No. Code, code change with Lot No

				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.

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

Package Type	Units					Dimension		(unit mm3)	
	Units/Bag	Bags/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Bag	Inner Box	Inch	Box