

/ Descriptions

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

/ Features

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

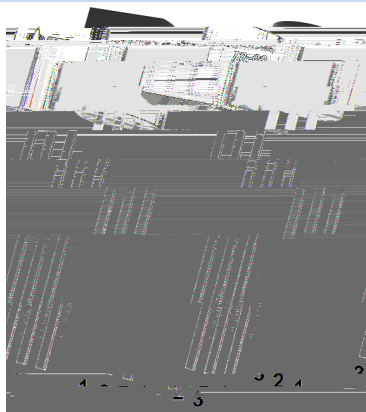
/ Applications

Voltage Regulator.

/ Equivalent Circuit or Application Circuit



/ Pinning



PIN1 OUT PIN 2 IN PIN 3 GND

/ Marking

See Marking Instructions.

/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating	Unit
Input voltage	V_I	-35	V
Output current	I_O	100	mA
Operating Temperature Range	T_{OPR}	-40 125	
Power Dissipation	P_D	625	mW
Storage temperature range	T_{stg}	-65 150	

/ Electrical Characteristics(Ta=25)

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
		$-7.5V \leq V_{in} \leq -20V$ $5mA \leq I_{out} \leq 100mA$	-4.75	-5.0	-5.25	
Line Regulation	REGline	$-7.5V \leq V_{in} \leq -20V$ $I_O = 40mA$ $T_j = 25$		50	150	mV
Load Regulation	REGload	$5mA \leq I_{out} \leq 100mA$ $T_j = 25$		20	60	
		$5mA \leq I_{out} \leq 40mA$ $T_j = 25$		10	30	
Bias current	I_Q	$I_{out} = 0$ $T_j = 25$		3	6	mA
Bias current change	I_Q	$-8V \leq V_{in} \leq -20V$			1.5	
		$1mA \leq I_{out} \leq 40mA$			0.1	
Output noise voltage	V_N	$10Hz \leq f \leq 100KHz$ $T_j = 25$		40		μV
Ripple rejection	RR	$f = 120Hz$ $-8V \leq V_{in} \leq -18V$	41	49		dB
Dropout voltage	V_D	$T_j = 25$		1.7		V

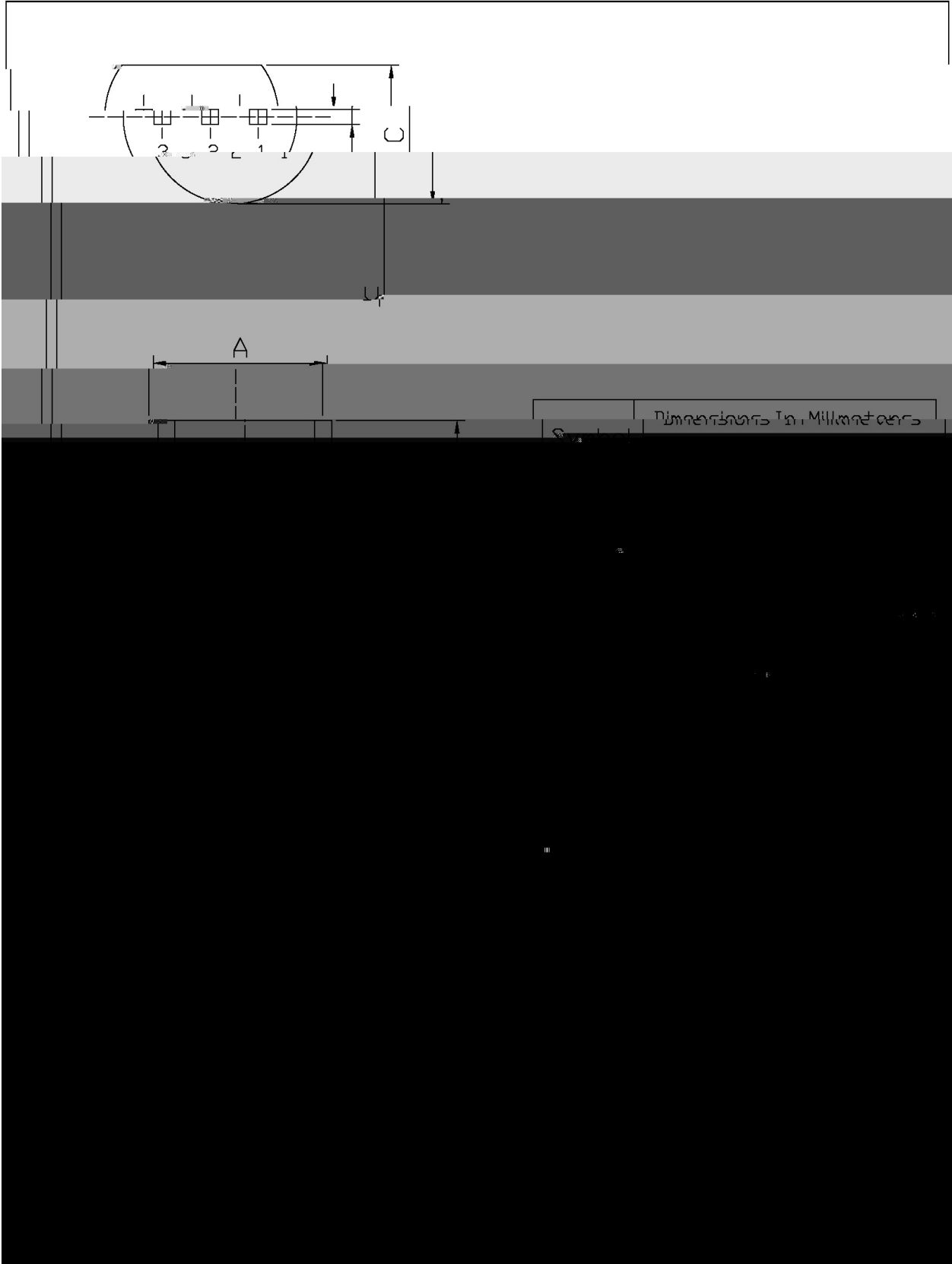
/ Electrical Characteristic Curve



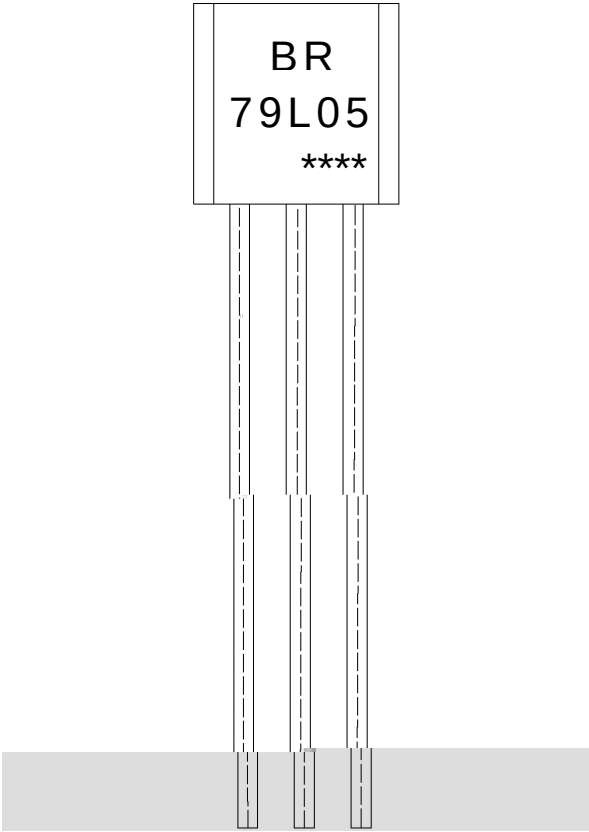
/ Package Dimensions

TO-92

Unit: mm



/ Marking Instructions



BR

79L05

Note:

BR:

79L05:

****:

Company Code

Product Type

Lot No. Code, code change with Lot No

G PD t ... • Ž Ć (x /) / Temperature Profile for Dip Soldering(Pb-Free)

- ^a Ć y

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.

ÂD /Cã p ¯ »] / Resistance to Soldering Heat Test Conditions

“ † y 270 r5 - ž • y 10 r1 sec. Temp.:270±5 Time:10±1 sec

G P á / Packaging SPEC.

• ^ x / BULK

Package Type	Units ;>û ¡H	Dimension ;>û p . (unit /mm3)
7>û ~ E		