

/ Descriptions

Voltage Regulator in a TO-92 Plastic Package.

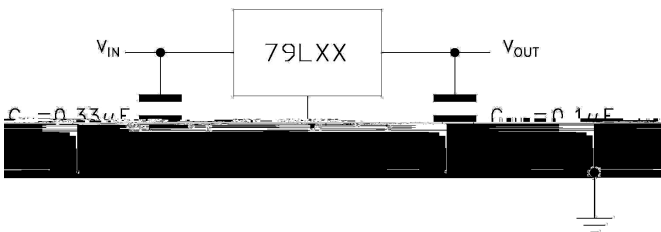
/ Features

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

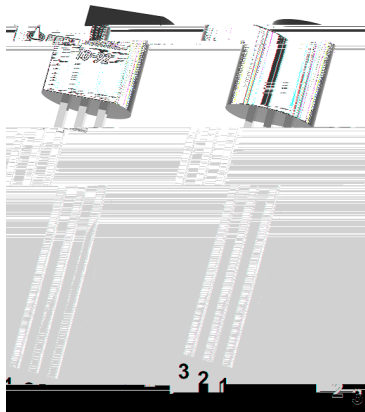
/ Applications

Voltage Regulator.

/ Equivalent Circuit or Application Circuit



/ Pinning



PIN1 OUT PIN 2 IN PIN 3 GND

/ Marking

See Marking Instructions.

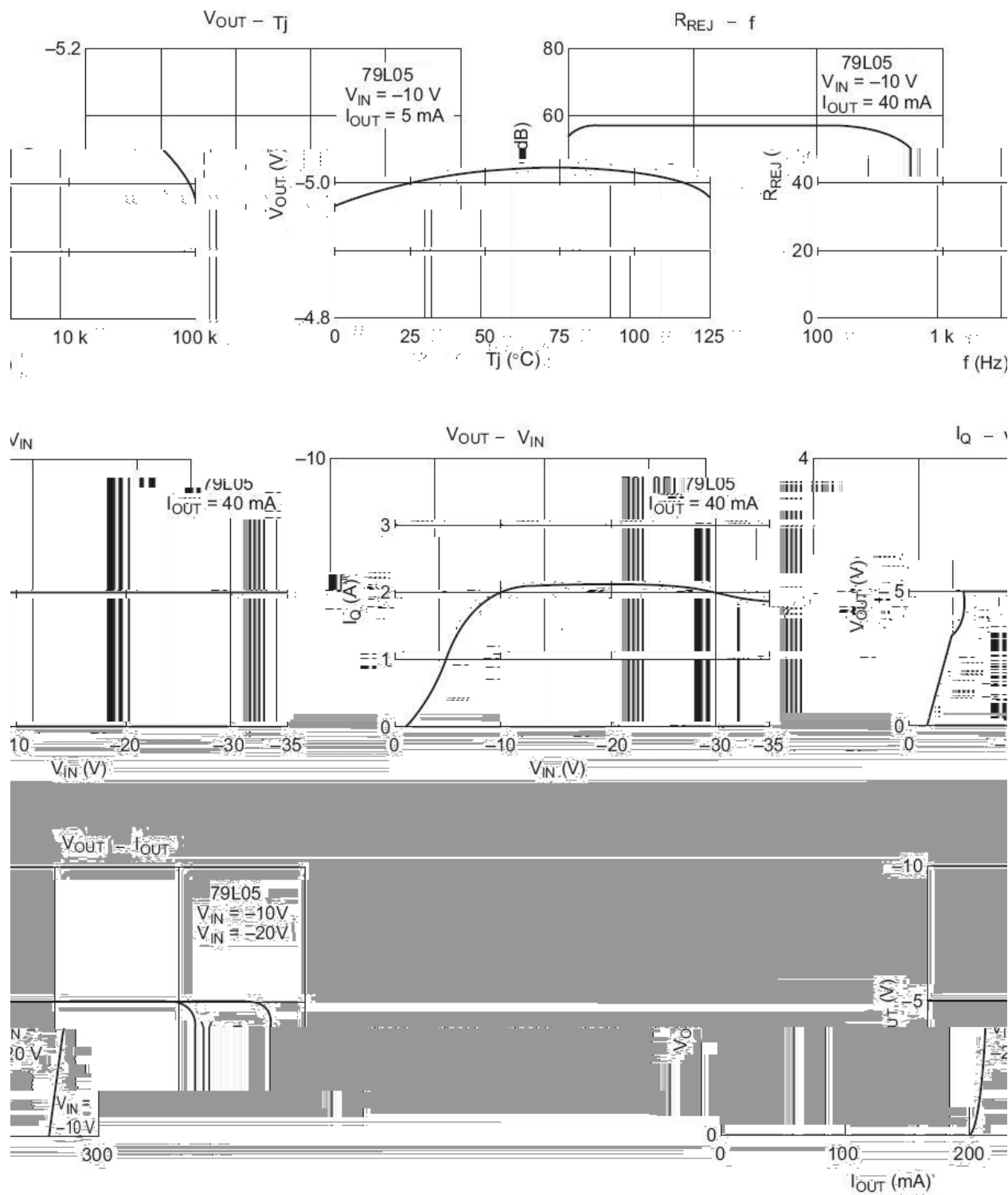
/ Absolute Maximum Ratings($T_a=25^\circ\text{C}$)

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($T_a=25^\circ\text{C}$)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Output voltage	V_O	$I_O = 40\text{mA}$ $T_j=25^\circ\text{C}$	-4.80	-5.0	-5.2	V
		$-7.5\text{V} \leq V_{in} \leq -20\text{V}$ $5\text{mA} \leq I_{out} \leq 100\text{mA}$	-4.75	-5.0	-5.25	
Line Regulation	REGline	$-7.5\text{V} \leq V_{in} \leq -20\text{V}$ $I_O=40\text{mA}$ $T_j=25^\circ\text{C}$		50	150	mV
Load Regulation	REGload	$5\text{mA} \leq I_{out} \leq 100\text{mA}$ $T_j=25^\circ\text{C}$		20	60	
		$5\text{mA} \leq I_{out} \leq 40\text{mA}$ $T_j=25^\circ\text{C}$		10	30	
Bias current	I_Q	$I_{out}=0$ $T_j=25^\circ\text{C}$		3	6	mA
Bias current change	I_Q	$-8\text{V} \leq V_{in} \leq -20\text{V}$			1.5	
		$1\text{mA} \leq I_{out} \leq 40\text{mA}$			0.1	
Output noise voltage	V_N	$10\text{Hz} \leq f \leq 100\text{KHz}$ $T_j=25^\circ\text{C}$		40		μV
Ripple rejection	RR	$f=120\text{Hz}$ $-8\text{V} \leq V_{in} \leq -18\text{V}$	41	49		dB
Dropout voltage	V_D	$T_j=25^\circ\text{C}$		1.7		V

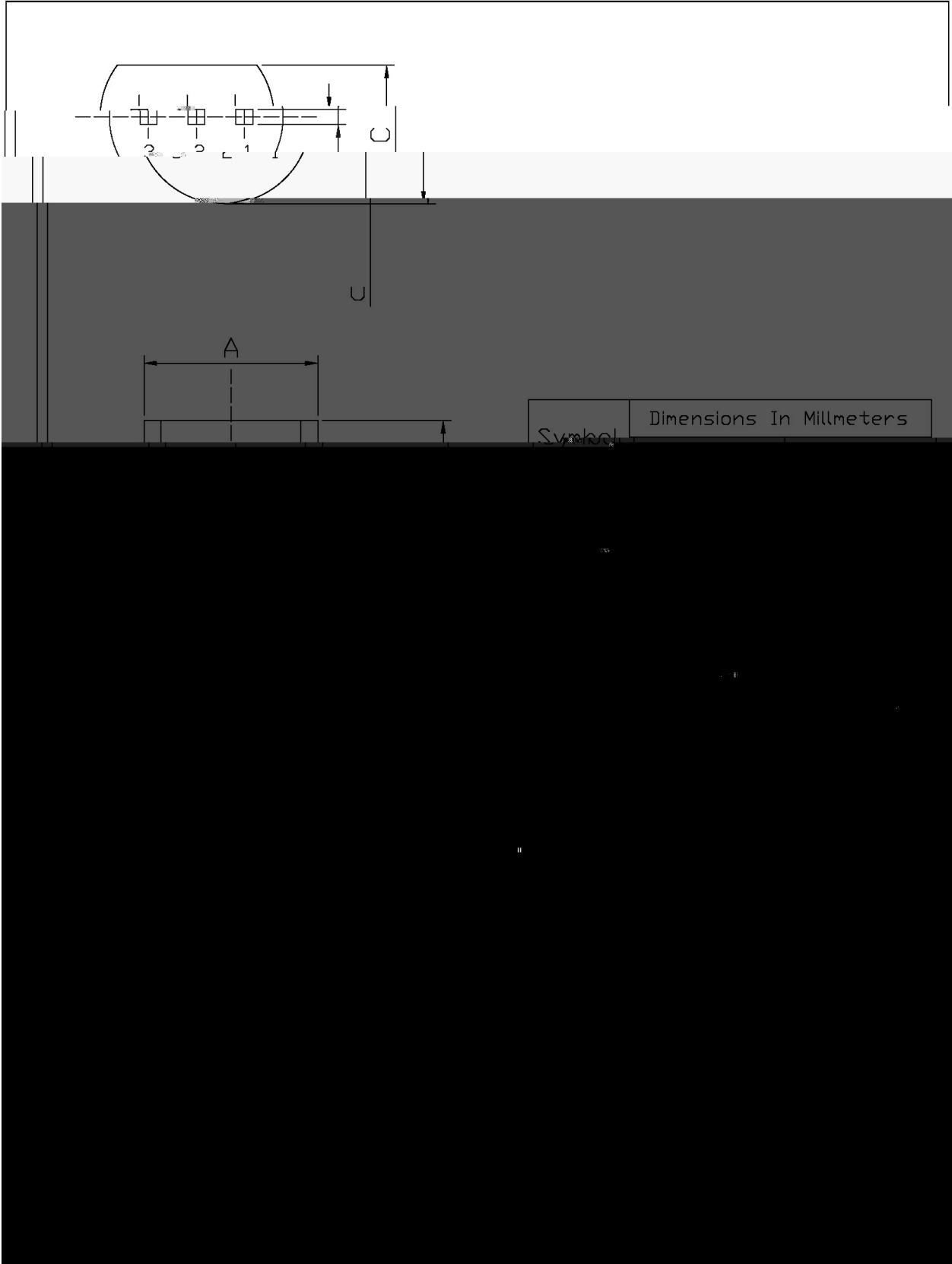
/ Electrical Characteristic Curve



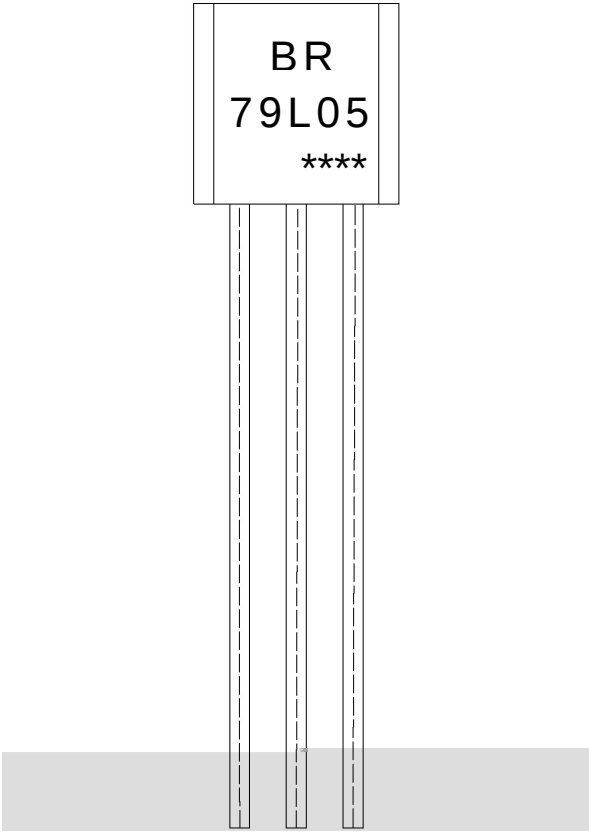
/ Package Dimensions

T0-92

Unit: mm



/ Marking Instructions



BR

79L05

Note:

BR: Company Code

79L05: Product Type

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

Dip Soldering(Pb-Free)

Note:

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

Test Conditions

Temp.:270±5℃ Time:10±1 sec

	Dimension (unit: mm)		
50,000	135×190	237×172×102	560×245×195

	Dimension (unit: mm)
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