

/ Descriptions

Voltage Regulator in a TO-92 Plastic Package.

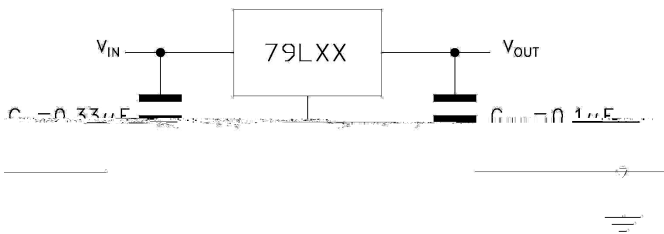
/ Features

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

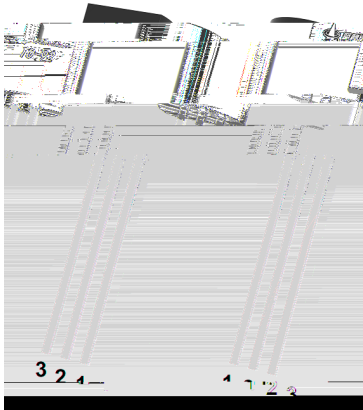
/ Applications

Voltage Regulator.

/ Equivalent Circuit or Application Circuit



/ Pinning



PIN1 OUT PIN 2 IN PIN 3 GND

/ Marking

See Marking Instructions.

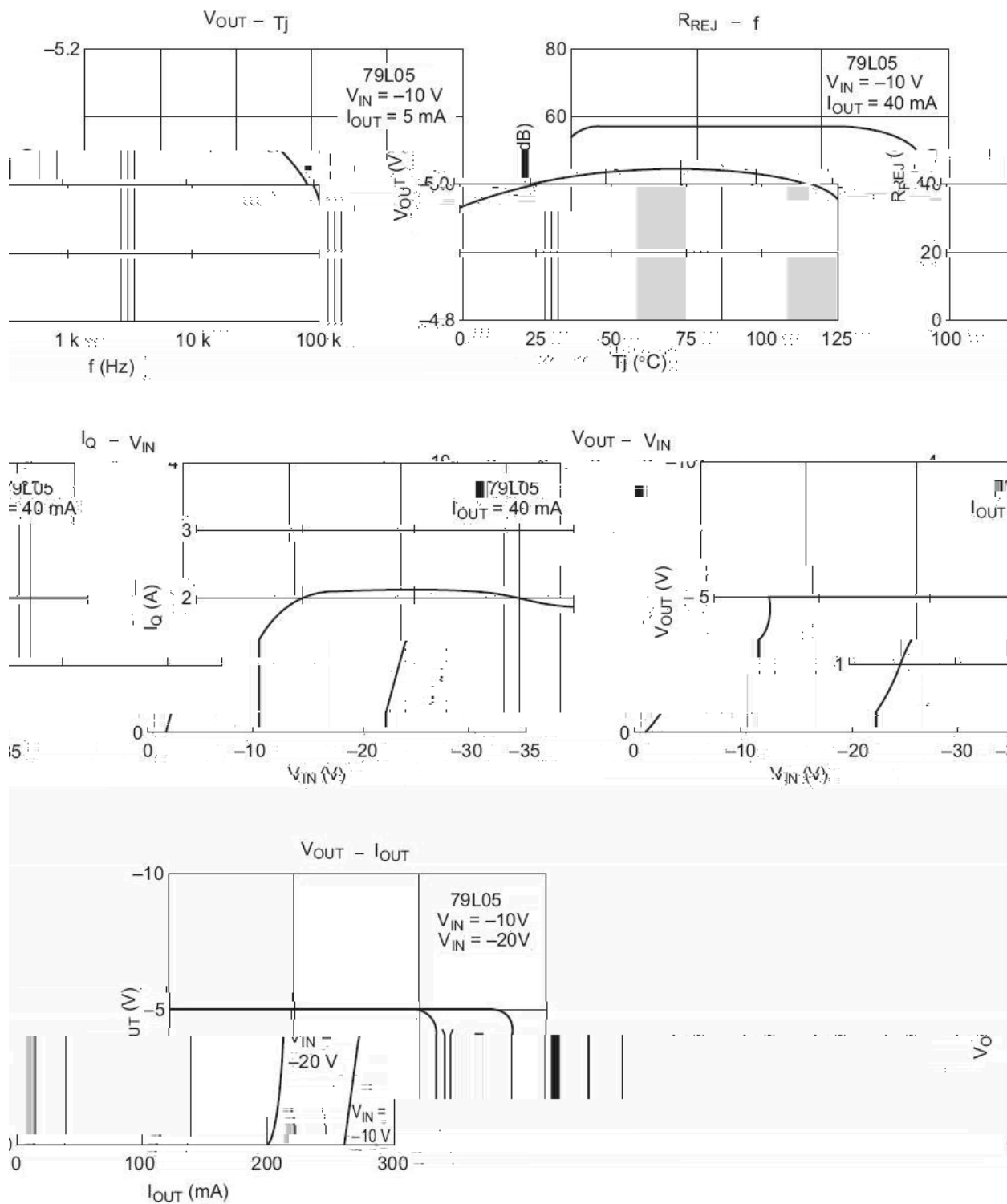
/ Absolute Maximum Ratings($T_a=25$)

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($T_a=25$)

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

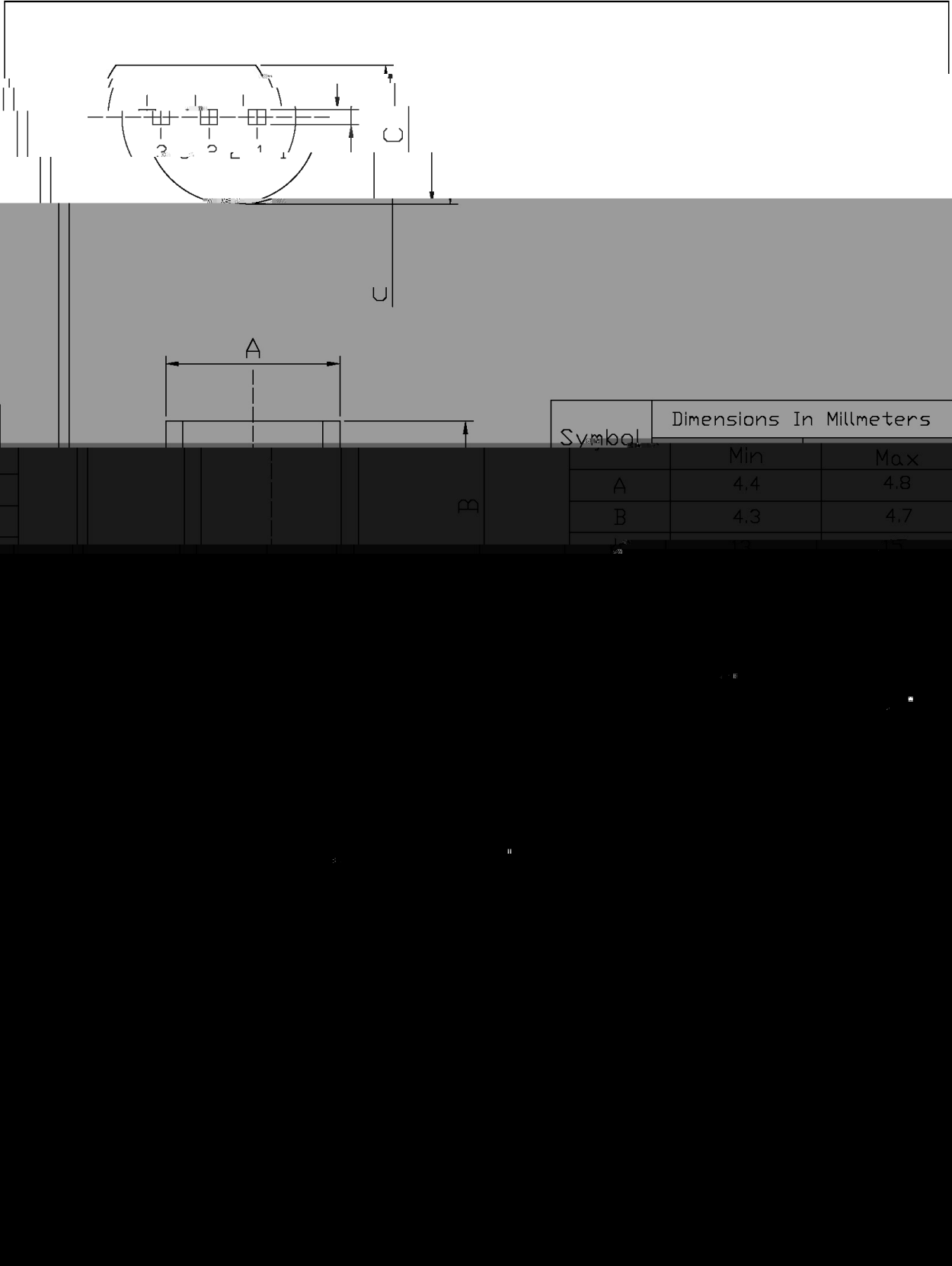
/ Electrical Characteristic Curve



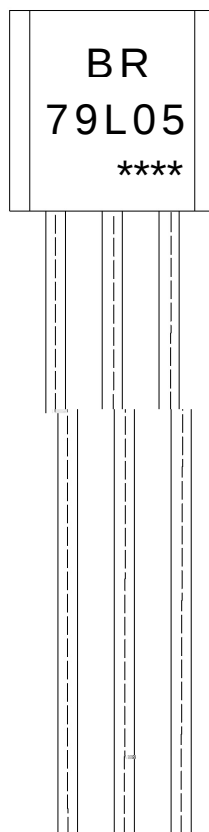
/ Package Dimensions

TO-92

Unit: mm



/ Marking Instructions



BR

79L05

Note:

BR: Company Code

79L05: 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 5 Units (Dimension (unit [Units ;