

/ Descriptions

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

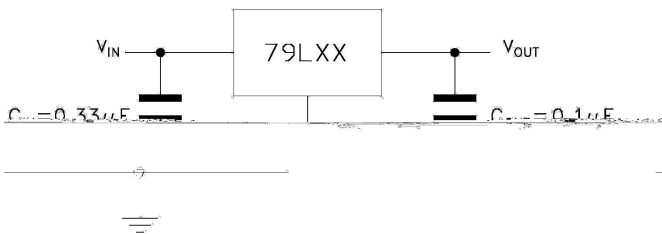
/ Features

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

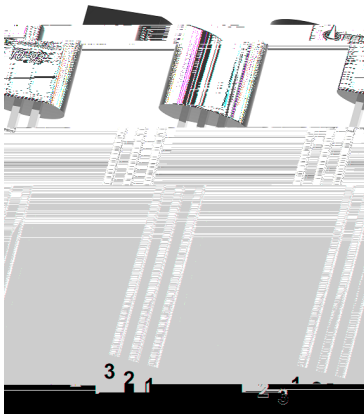
/ Applications

Voltage Regulator.

/ Equivalent Circuit or Application Circuit



/ Pinning



PIN1 OUT PIN 2 IN PIN 3 GND

/ Marking

See Marking Instructions.

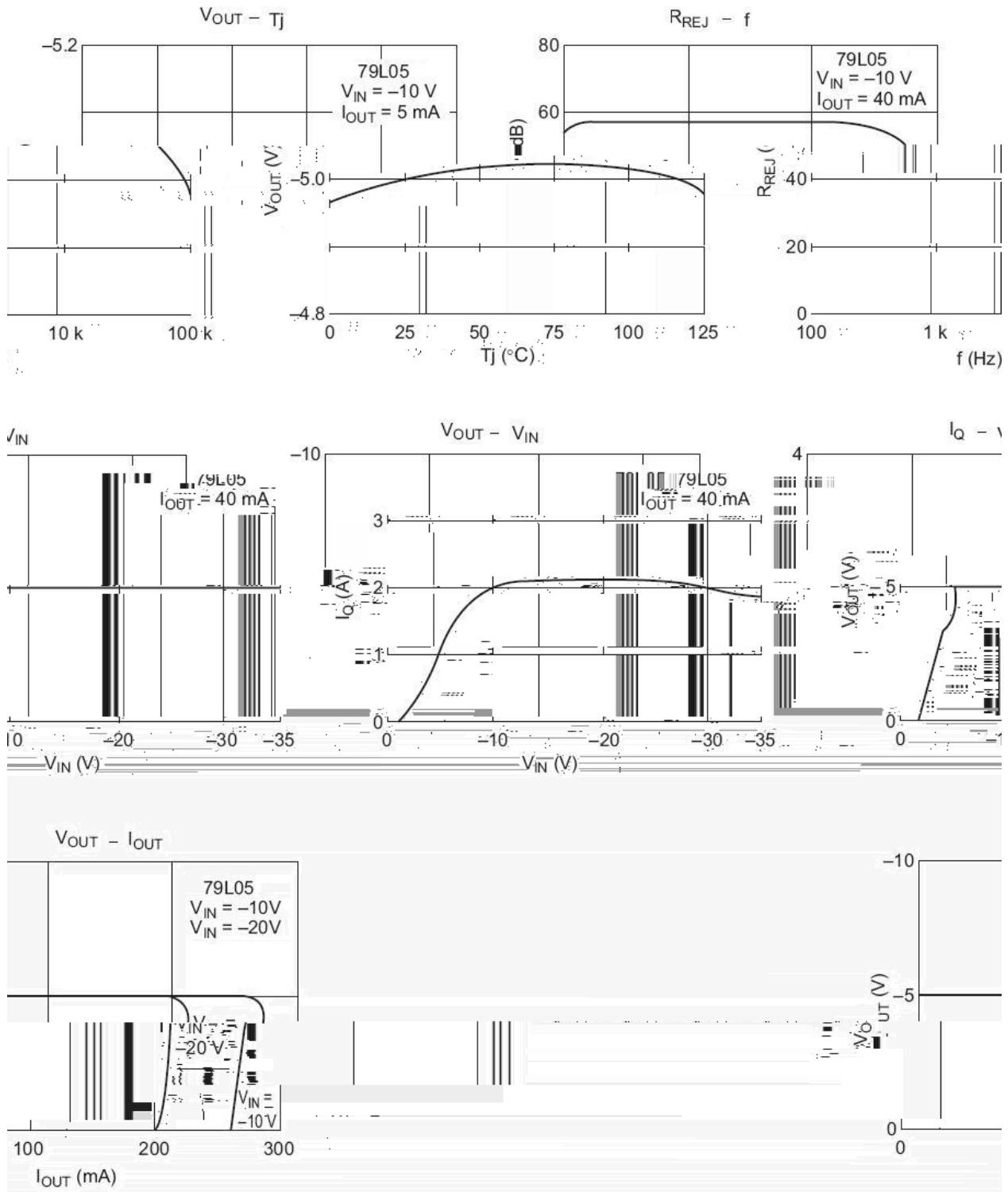
/ Absolute Maximum Ratings(Ta=25)

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

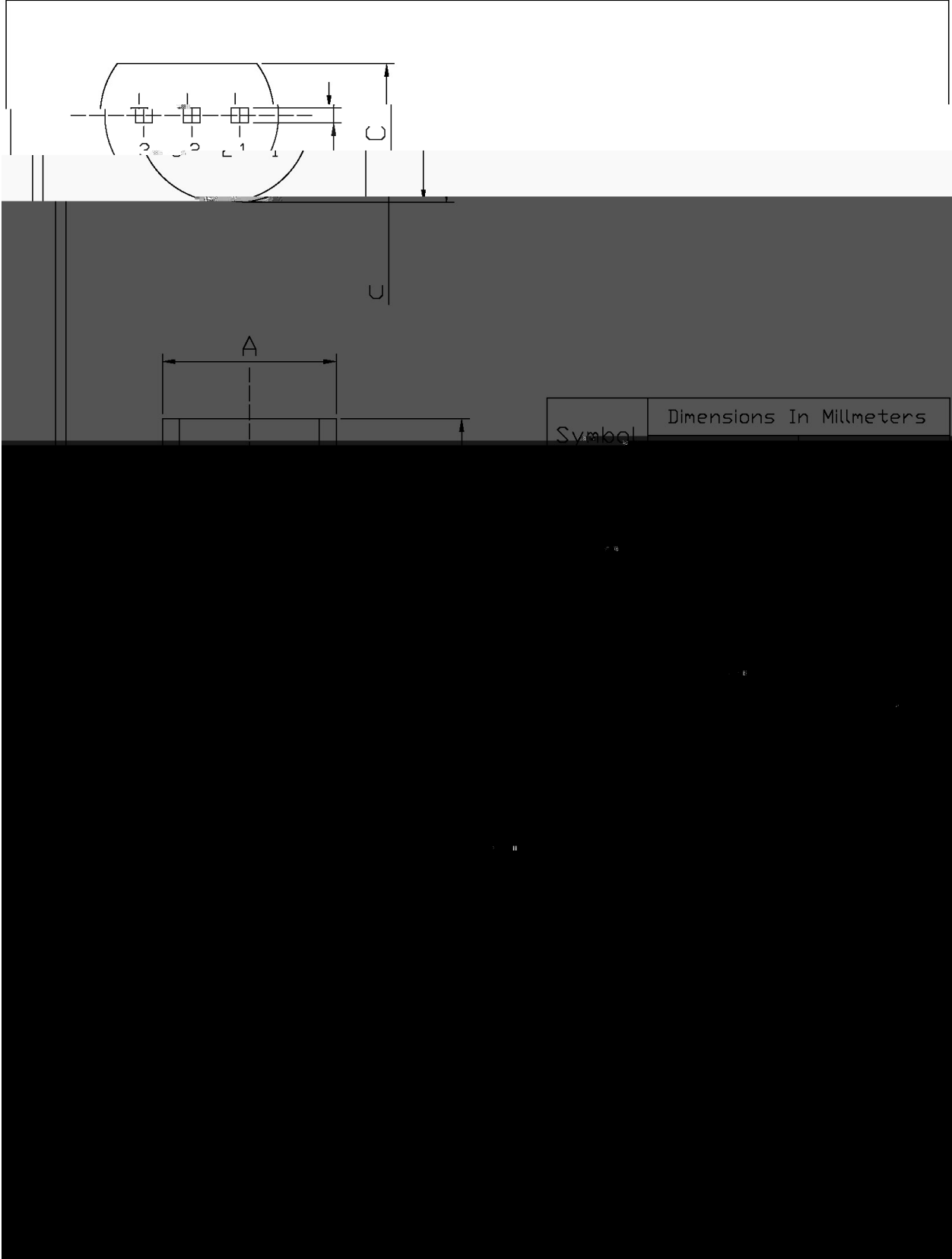
/ Electrical Characteristic Curve



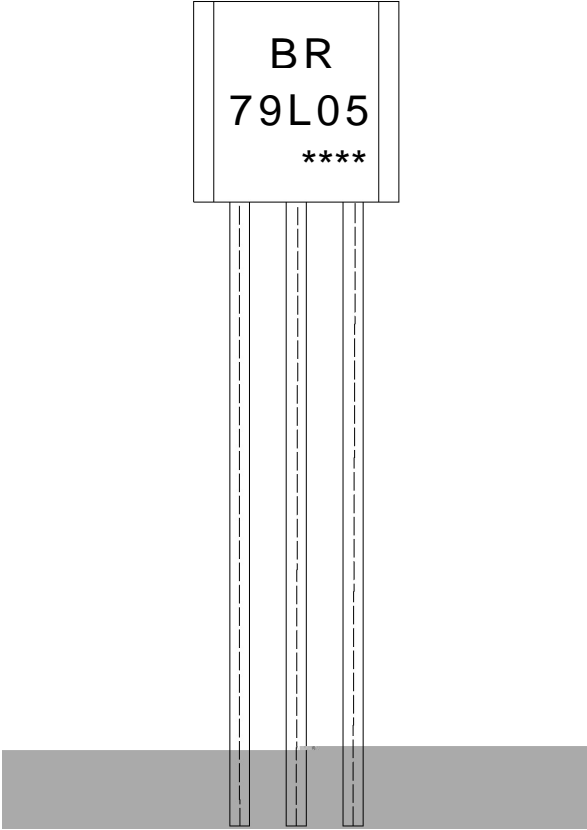
/ Package Dimensions

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)

- | | | | | | | | |
|---|-------|-----|-----------|--------------------------------------|--|--|--|
| | | | | | | | |
| 1 | 25 | 150 | 60 | 90sec; | Note: | | |
| 2 | 255±5 | | 5±0.5sec; | 1.Preheating:25~150 , Time:60~90sec. | | | |
| 3 | | 2 | 10 | /sec. | 2.Peak Temp.:255±5 , Duration:5± 0.5sec. | | |
| | | | | | 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	Units					Dimension (unit mm3)		
TO-92	1,000	10	10,000	5	50,000	135×190	237×172×102	560×245×195

/ AMMO

Package Type	Units	Dimension	(unit mm3)
	/	1φ	