

Rev.1 Jun.-2024

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: 5 .> // x 9 ² ... ~ož Voltage Regulator in a TO-92 Plastic Package.

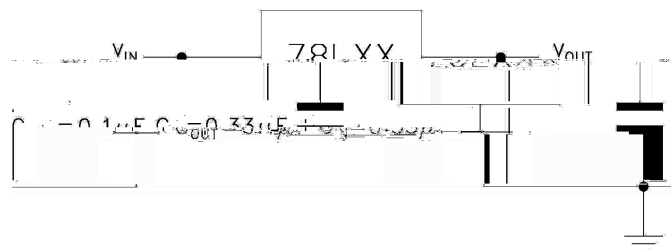
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 3-Terminal regulators ,output current up to 100 mA, internal thermal overload protection and short-circuit limiting.

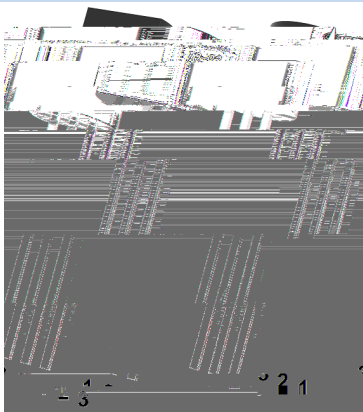
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 Voltage Regulator.

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PIN1 y IN

PIN 2 y GND

PIN 3 y OUT

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See Marking Instructions.

表 1 主要电气特性

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	500	mW
Storage temperature range	T_{stg}	-65 ~ 150	

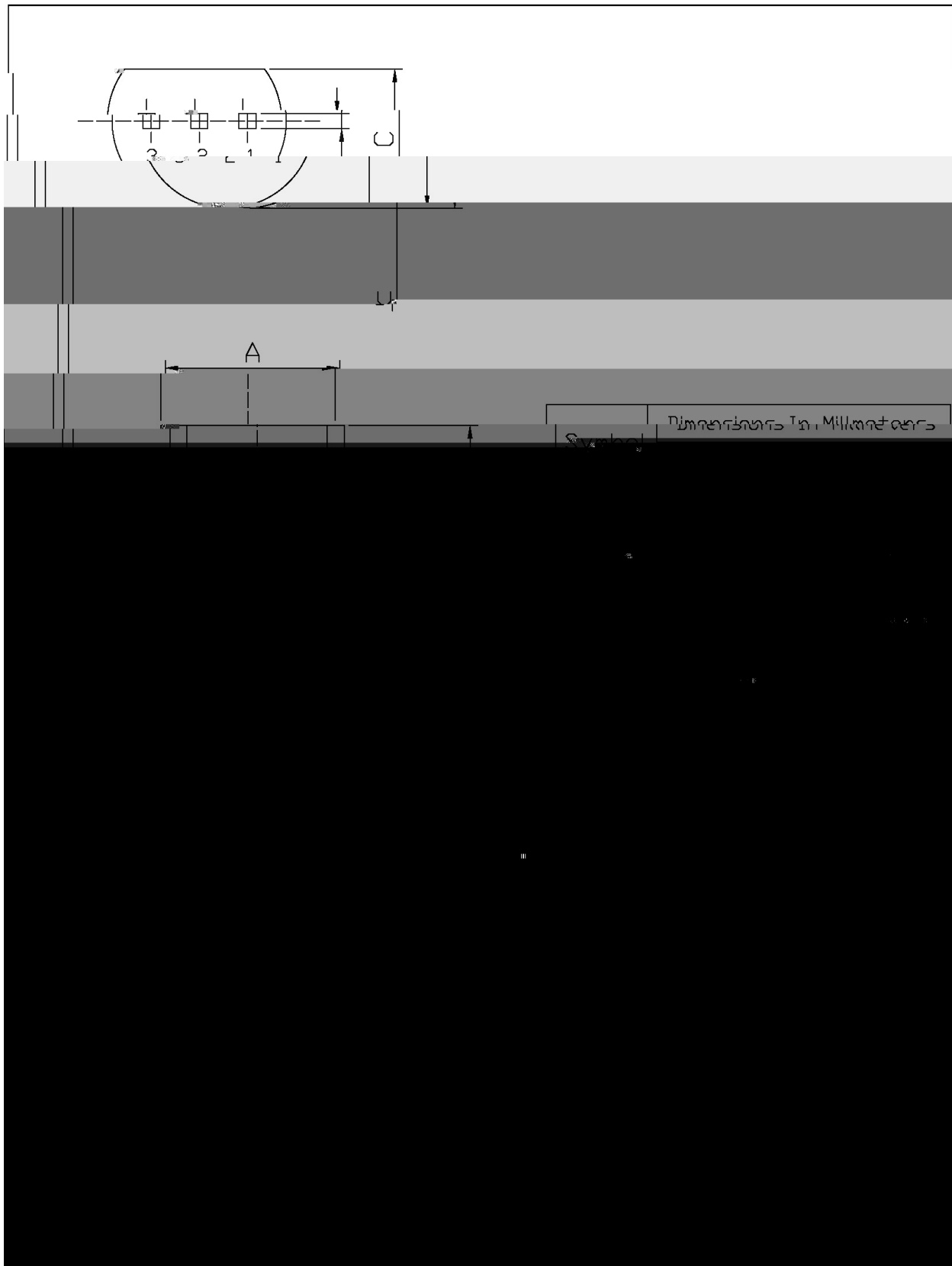
表 2 典型性能指标

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Output voltage	V_O	$I_O \leq 40mA$ $T_j=25$	11.5	12	12.5	V
		$I_O=1mA$ to 40mA $V_I=14V$ to 27V	11.4	12	12.6	V
		$I_O=1mA$ to 70mA $V_I=19V$	11.4	12	12.6	V
Input regulation	ΔV_O	$V_I=14.5V$ to 27V $T_j=25$		55	250	mV
		$V_I=16V$ to 27V $T_j=25$		49	200	mV
Ripple rejection	RR	$V_I=15V$ to 25V $T_j=25$ $f=120Hz$	37	42		dB
Output regulation	ΔV_O	$I_O=1mA$ to 100mA $T_j=25$		22	100	mV
		$I_O=1mA$ to 40mA $T_j=25$		13	50	mV
Output noise voltage	V_N	$f=10Hz$ to 100KHz $T_j=25$		70		μV
Dropout voltage	V_D	$T_j=25$		1.7		V
Bias current	I_Q	$T_j=25$		4.3	6.5	mA
		$T_j=125$			6.0	mA
Bias current change	ΔI_Q	$V_I=16V$ to 27V			1.5	mA
		$I_O=1mA$ to 40mA			0.1	mA

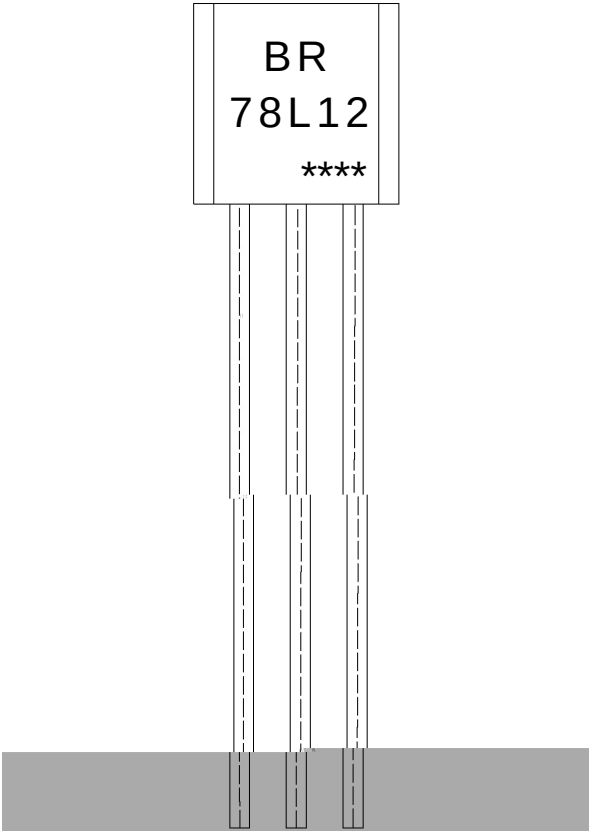
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T0-92

Unit: mm



, M y f



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BR y , [W A
78L12 y D } ° Z
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Note:
BR: Company Code
78L12: Product Type
****: Lot No. Code, code change with Lot No

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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.

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“† y 270 r5 -

ž • y 10 r1 sec.

Temp.:270±5

Time:10±1 sec

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• ^ x / BULK

Package Type 7>û ~ E	Units ;>û ¡H					Dimension ;>û p . (unit /mm3)		
	Units/Bag >Á	Bags/Inner Box >Ä-	Units/Inner Box /-	Inner Boxes/Outer Box - /1ç	Units/Outer Box /1ç	Bag>Á	Inner Box	Outer Boxç