

Rev.F Sep.-2018

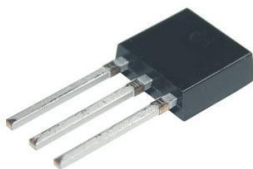
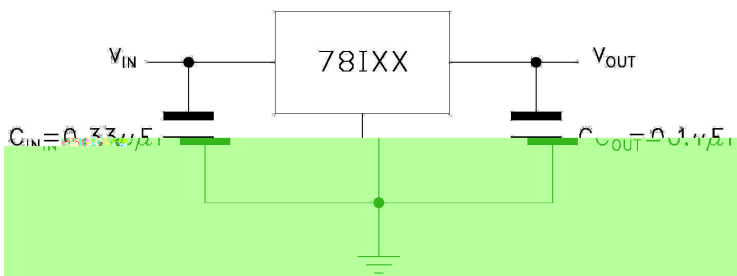
TO-251

Voltage Regulator in a TO-251 Plastic Package.

1.5A,

3-Terminal regulators ,output current up to 1.5A, internal thermal overload protection and short-circuit limiting.

Voltage Regulator.

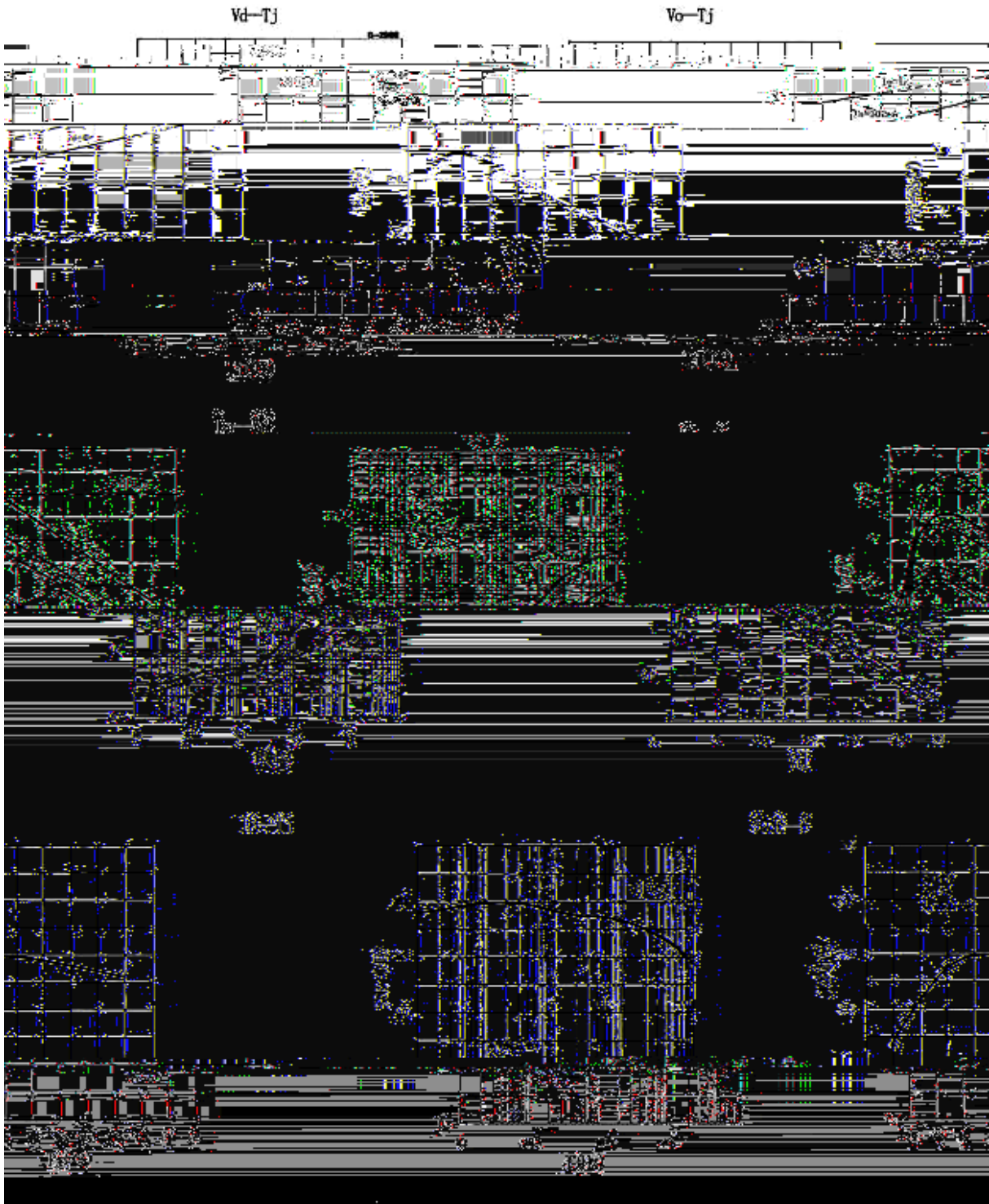


PIN1 IN      PIN 2 GND      PIN 3 OUT

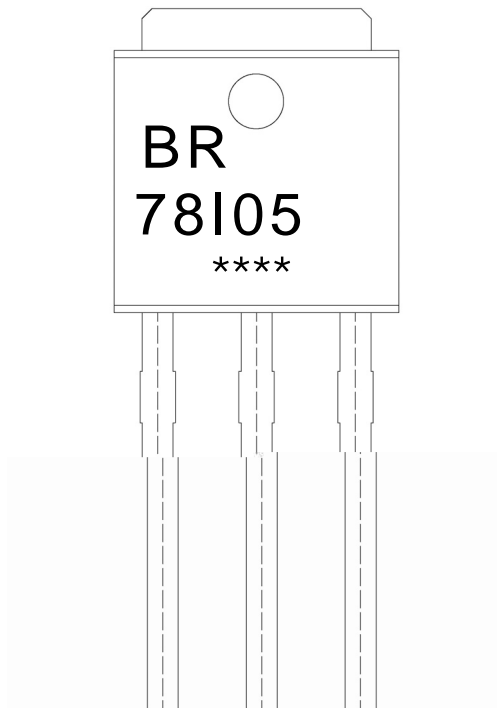
See Marking Instructions

Parameter	Symbol	Rating	Unit
Input voltage	$V_i$	35	V
Thermal Resistance Junction-ambient	$R_{JA}$	65	$^{\circ}\text{C}/\text{W}$
Thermal Resistance Junction-case	$R_{JC}$	10	$^{\circ}\text{C}/\text{W}$
Operating Junction Temperature Range	$T_{OPR}$	0 125	$^{\circ}\text{C}$
Storage temperature range	$T_{stg}$	-65 150	$^{\circ}\text{C}$

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Output voltage	$V_o$	$T_j=25^{\circ}\text{C}$	4.8	5.0	5.2	V
		$V_i=7\text{V}-20\text{V}$ $I_o=5\text{mA}-1\text{A}$ $P_o 15\text{W}$	4.75	5.0	5.25	V
Load Regulation	$V_o$	$T_j=25^{\circ}\text{C}$ $I_o=5\text{mA}-1.5\text{A}$			100	mV
		$T_j=25$ $I_o=250\text{mA}-750\text{mA}$			50	mV
Line regulation	$V_o$	$T_j=25^{\circ}\text{C}$ $V_i=7\text{V}-25\text{V}$		3.0	100	mV
		$T_j=25^{\circ}\text{C}$ $V_i=8\text{V}-12\text{V}$		1.0	50	mV
Quiescent Current	$I_q$	$T_j=25$			8.0	mA
Quiescent Current Change	$I_q$	$V_i=7\text{V}-25\text{V}$			0.8	mA
		$I_o=5\text{mA}-1\text{A}$			0.5	mA
Output Voltage Drift	$V_o/ T$	$I_o=5\text{mA}$		-1.1		$\text{mV}/^{\circ}\text{C}$
Output Noise Voltage	eN	$B=10\text{Hz}-100\text{KHz}$ $T_j=25$			40	$\mu\text{V}/V_o$
Supply Voltage Rejection	SVR	$V_i=8\text{V}-18\text{V}$ $f=120\text{Hz}$	62			dB
Dropout Voltage	$V_d$	$I_o=1\text{A}$ $T_j=25$		2.0		V
Output Resistance	$R_o$	$f=1\text{KHz}$		17		m
Short Circuit Current	$I_{sc}$	$V_i=35\text{V}$ $T_j=25$		0.75		A
Short Circuit Peak Current	$I_{scp}$	$T_j=25$		2.2		A







BR

78I05

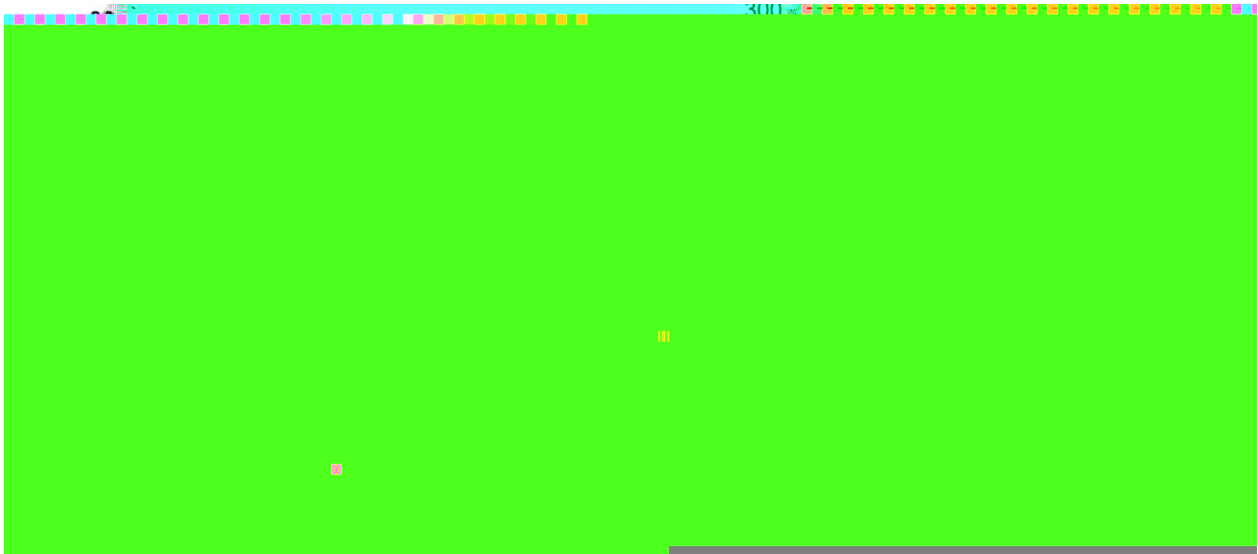
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Note:

BR: Company Code.

78I05: Product Type.

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


**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.            |

270±5

10±1 sec.

Temp:270±5℃

Time:10±1 sec

/ BULK

Package Type 封装形式	Units 包装数量				Dimension 包装尺寸 (unit: mm3)
	Units/Bag 只/袋	Bags/Inner Box 袋/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	