

Rev.F Sep.-2018

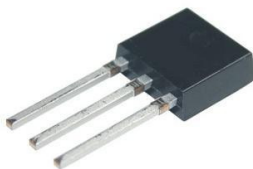
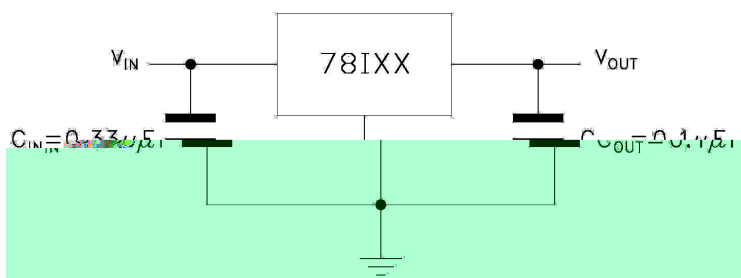
TO-251

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.



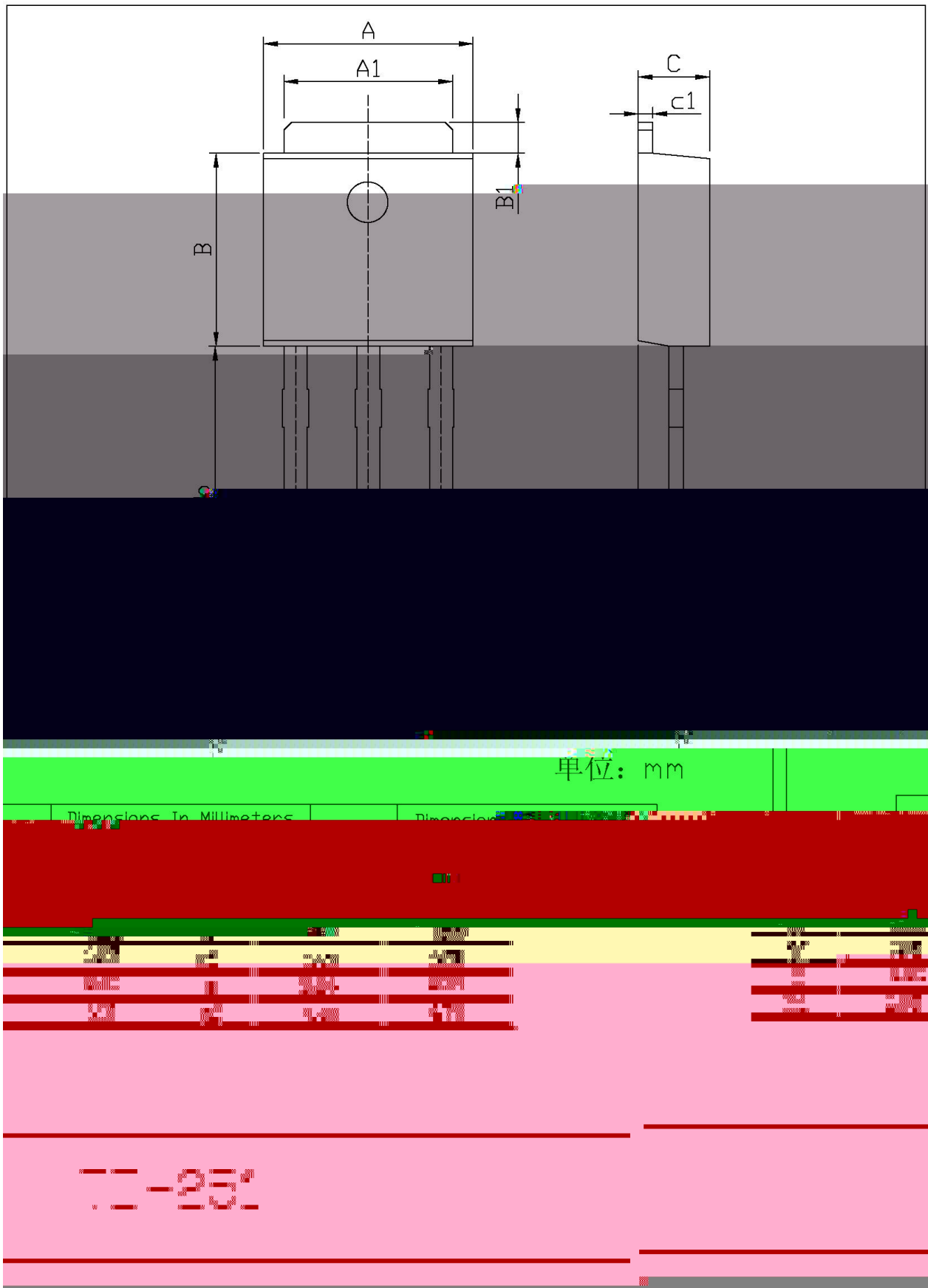
PIN1 IN PIN 2 GND PIN 3 OUT

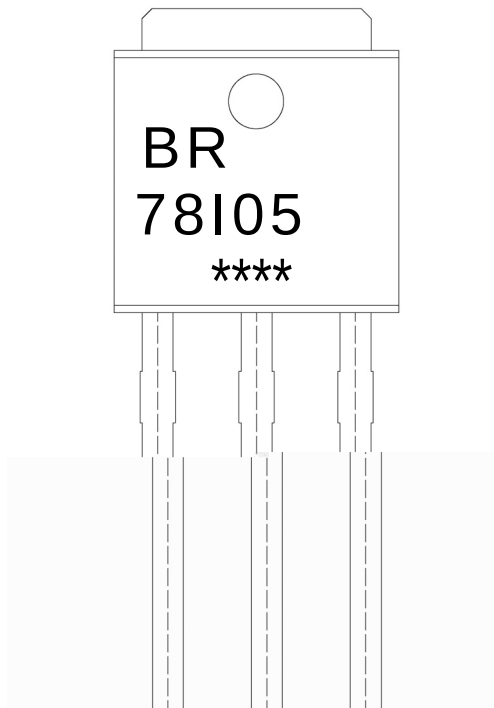
See Marking Instructions

Parameter	Symbol	Rating	Unit
Input voltage	V_i	35	V
Thermal Resistance Junction-ambient	$R_{\theta JA}$	65	$^{\circ}\text{C}/\text{W}$
Thermal Resistance Junction-case	$R_{\theta JC}$	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
		$V_i=7\text{V}-20\text{V}$ $I_o=5\text{mA}-1\text{A}$ $P_o \leq 15\text{W}$	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=10Hz-100KHz $T_j=25$			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		$\text{m}\Omega$
Short Circuit Current	Isc	$V_i=35\text{V}$ $T_j=25$		0.75		A
Short Circuit Peak Current	Iscp	$T_j=25$		2.2		A







Note:

BR: Company Code.

78I05: Product Type.

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



- 1

25 150

60 90sec;

2

255 5

5 0.5sec;

3

2 10

/sec.
- Note:
1.Preheating:25~150 , Time:60~90sec.
2.Peak Temp.:255 5 , Duration:5 0.5sec.
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	