

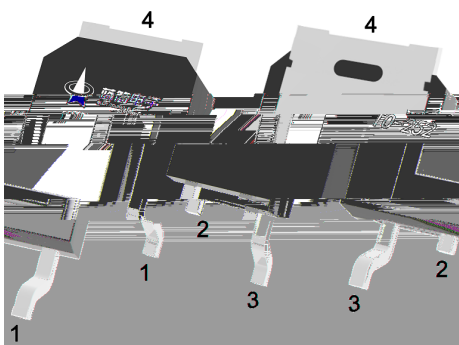
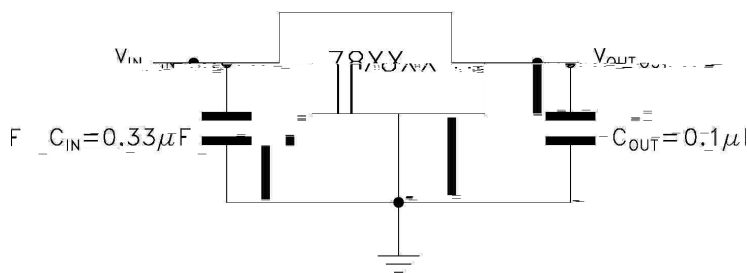
TO-252

Voltage Regulator in a TO-252 Plastic Package.

1.5A,

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

Voltage Regulator.

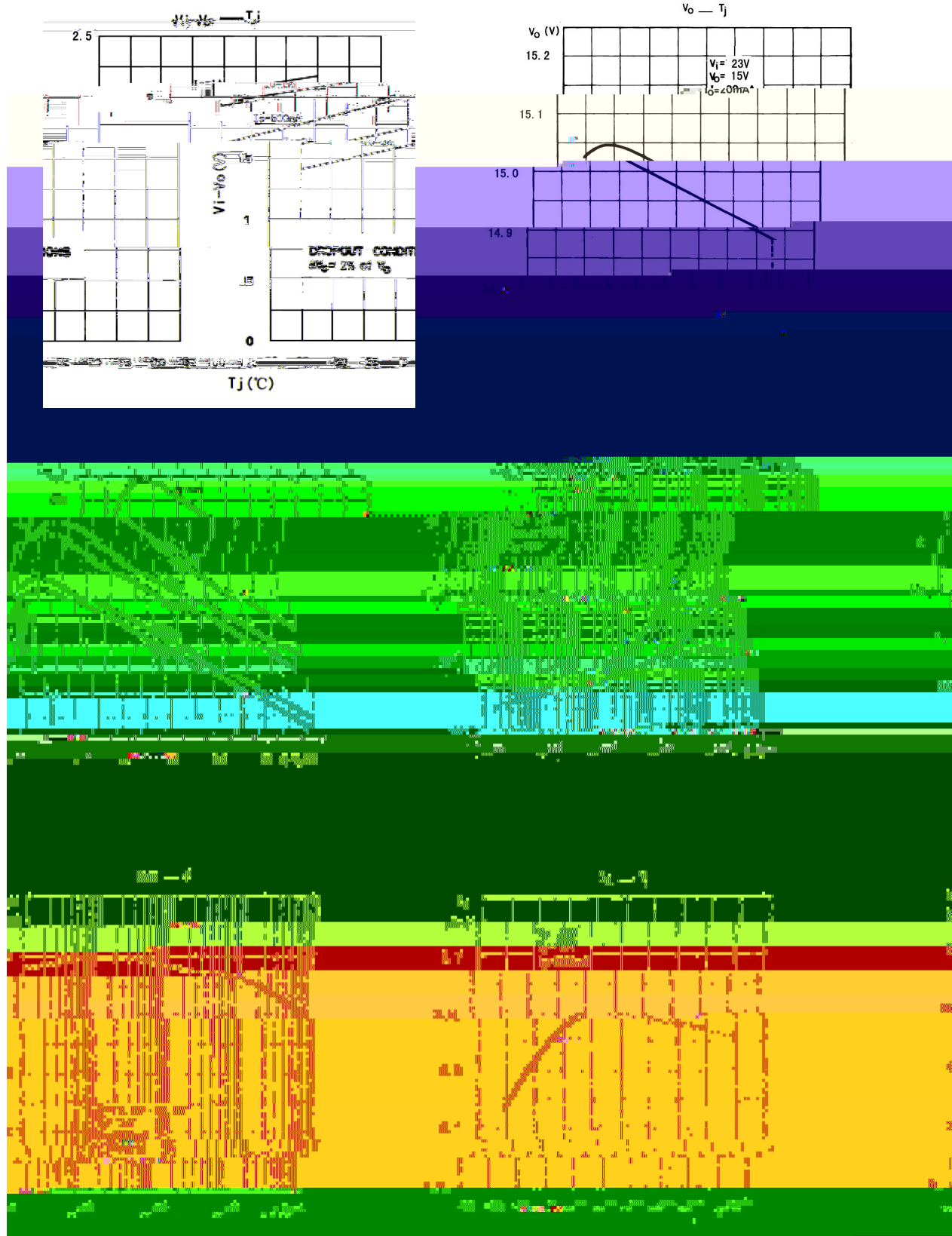


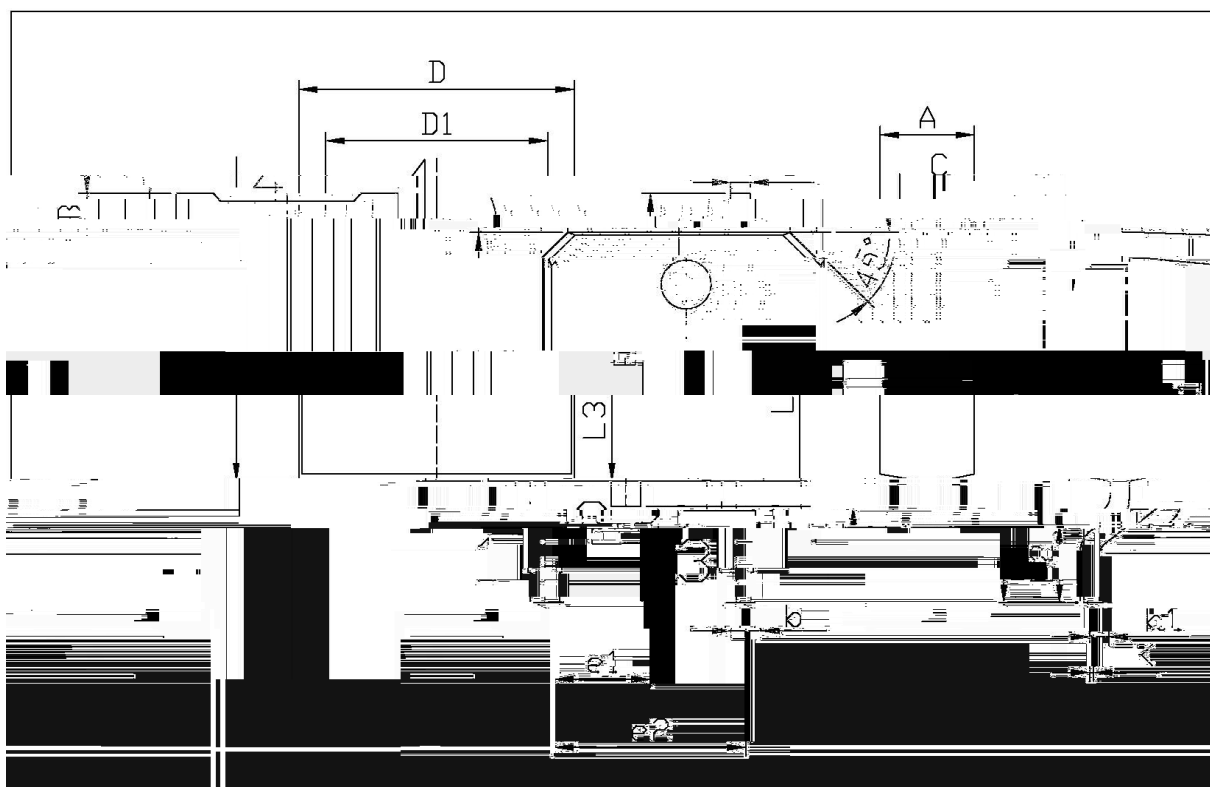
PIN1 IN PIN 2 4 GND PIN 3 OUT

See Marking Instructions.

Parameter	Symbol	Rating	Unit
Input Voltage Difference	V_I	35	V
Power Dissipation	P_D	Internally Limited	W
Junction-to-Ambient	R_{JA}	105	$^{\circ}\text{C}/\text{W}$
Junction-to-Case	R_{JC}	10	$^{\circ}\text{C}/\text{W}$
Operating Temperature Range	T_{OPR}	-40~125	$^{\circ}\text{C}$
Storage temperature range	T_{stg}	-65~150	$^{\circ}\text{C}$

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Output Voltage	V_O	$T_j=25$	14.4	15	15.6	V
		$V_i=17.5\text{V}-30\text{V}$ $I_o=5.0\text{mA}-1.0\text{A}$ P_o 15W	14.25	15	15.75	
Load Regulation	ΔV_{Load}	$T_j=25^{\circ}\text{C}$ $I_o=5.0\text{mA}-1.5\text{A}$			300	mV
		$T_j=25^{\circ}\text{C}$ $I_o=250\text{mA}-750\text{mA}$			150	
Line Regulation	ΔV_{Line}	$T_j=25^{\circ}\text{C}$ $V_i=17.5\text{V}-30\text{V}$			300	mV
		$T_j=25$ $V_i=20\text{V}-26\text{V}$			150	
Quiescent Current	I_q	$T_j=25^{\circ}\text{C}$			8.0	mA
Quiescent Current Change	ΔI_q	$V_i=17.5\text{V}-30\text{V}$			1.0	mA
		$I_o=5.0\text{mA}-1.0\text{A}$			0.5	mA
Output Voltage Drift	$\Delta V_o/\Delta T$	$I_o=5.0\text{mA}$		-1.0		mV/ $^{\circ}\text{C}$
Output Noise Voltage	eN	B=10Hz-100KHz $T_j=25^{\circ}\text{C}$		90		V/ V_o
Supply Voltage Rejection	SVR	$V_i=18.5\text{V}-28.5\text{V}$ $f=120\text{Hz}$	54			dB
Dropout Voltage	V_d	$I_o=1\text{A}$ $T_j=25^{\circ}\text{C}$		2.0		V
Output Resistance	R_o	$f=1.0\text{KHz}$		19		m
Short Circuit Current	Isc	$V_i=35\text{V}$ $T_j=25^{\circ}\text{C}$		0.23		A
Short Circuit Peak Current	Iscp	$T_j=25^{\circ}\text{C}$		2.2		A

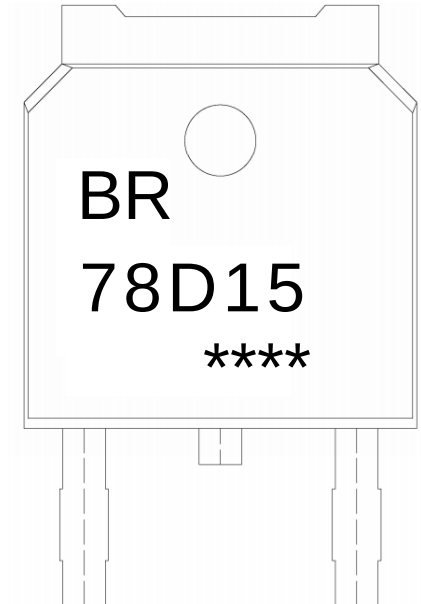




单位: mm

Dimensions In Millimeters			Dimensions In Millimeters		
Symbol	Min	Max	Symbol	Min	Max
E	5.95	6.25	A	2.20	2.40
B	2.24	2.34	R	0.95	1.25
C	0.55	0.73	S	0.70	0.85
L1	9.85	10.35	T	0.45	0.60
D	6.45	6.75	K	0.00	0.00
D1	5.10	5.50			

TO-252



BR

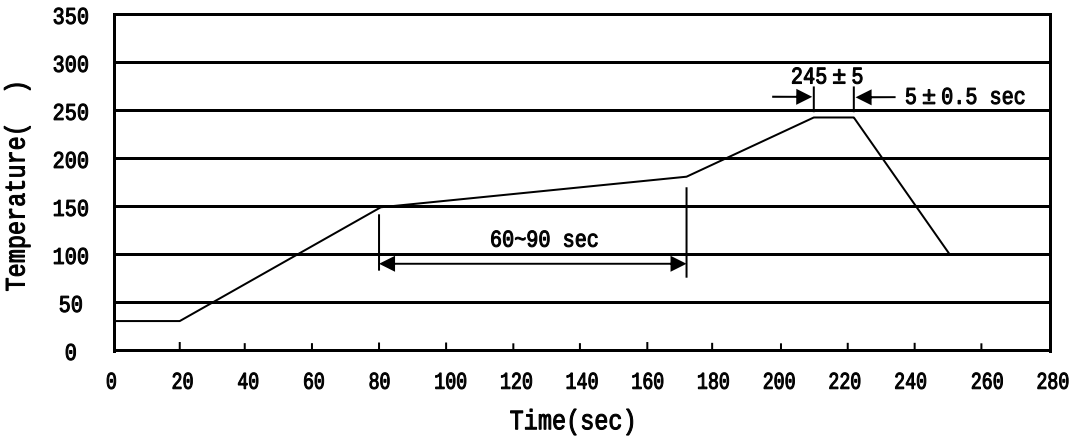
78D15

Note:

BR: Company Code

78D15: Product Type

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



Note:

- 1

150 180

60 90sec;

1.Preheating:150~180 , Time:60~90sec.
- 2

245 5

5 0.5sec;

2.Peak Temp.:245 5 , Duration:5 0.5sec.
- 3

2 10 /sec.

3. Cooling Speed: 2~10 /sec.

260 5

10 1 sec.

Temp.:260±5

Time:10±1 sec

/ REEL

Package Type	Units					Dimension (unit mm ³)		
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Reel	Inner Box	Outer Box
TO-252	2,500	2	5,000	6	30,000	13" ×16	360×360×50	380×335×366

/ TUBE

Package Type	Units					Dimension (unit mm ³)		
	Units/Tube	Tubes/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Tube	Inner Box	Outer Box
TO-251/252	75	48	3,600	5	18,000	526×20.5×5.25	555×164×50	575×290×180

PCB