

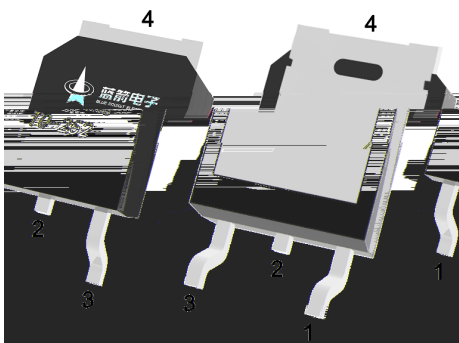
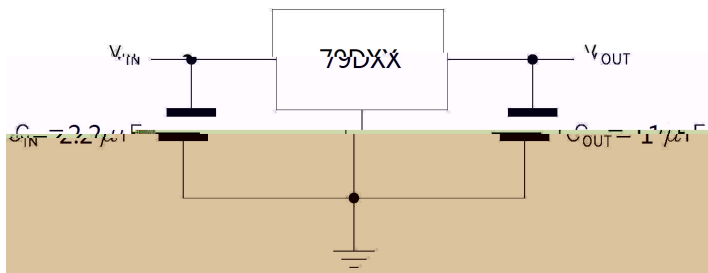
TO-252

Voltage Regulator in a TO-252 Plastic Package.



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

Voltage Regulator.

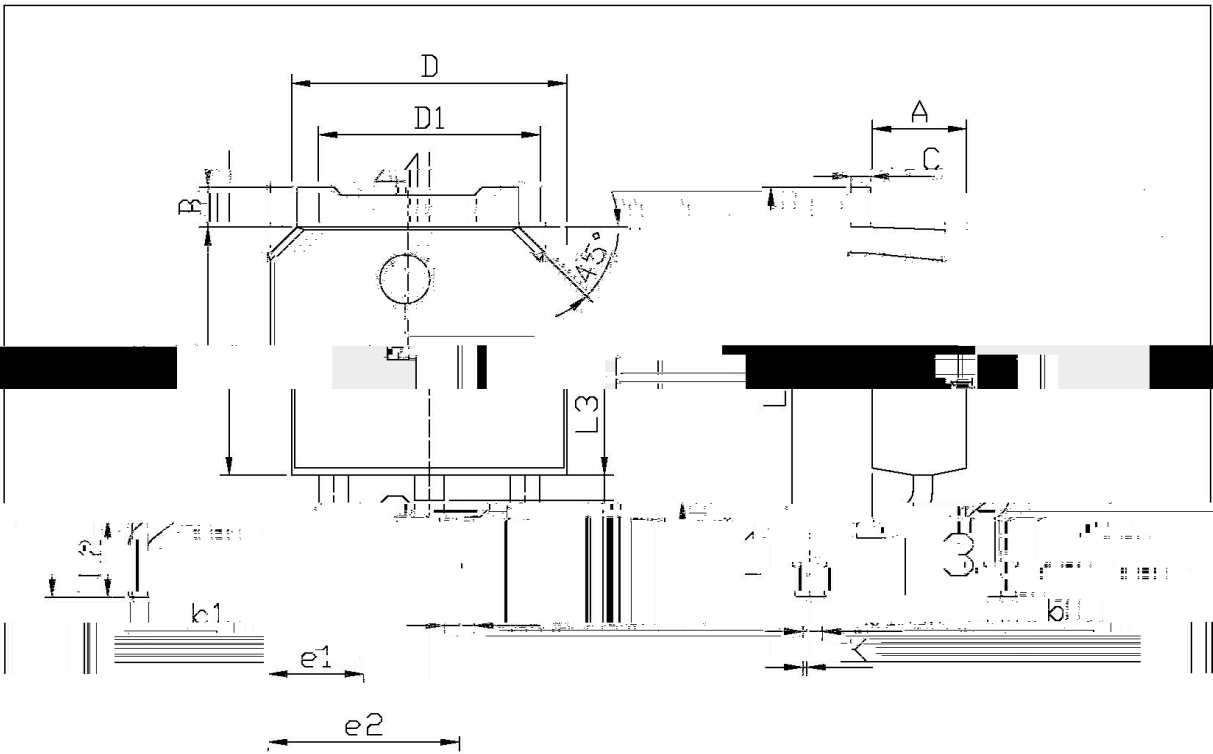


PIN1 IN PIN 2 4 GND PIN 3 OUT

See Marking Instructions.

Parameter	Symbol	Rating	Unit
Input voltage	V_I	-35	V
Thermal Resistance Junction-Ambient	R_{JA}	65	/W
Thermal Resistance Junction-Case	R_{JC}	5.0	/W
Operating Junction Temperature Range	T_{OPR}	0 125	
Storage temperature range	T_{stg}	-65 150	

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Output voltage	V_O	$T_j=25^{\circ}\text{C}$	-11.5	-12.0	-12.5	V
		$I_O=5\text{mA}\sim 1\text{A}$ P_O 15W $V_I=-14\text{V}\sim -27\text{V}$	-11.4	-12.0	-12.6	V
Load Regulation	V_O	$T_j=25$ $I_O=5.0\text{mA}\sim 1.5\text{A}$			240	mV
		$T_j=25$ $I_O=250\text{mA}\sim 750\text{mA}$			120	mV
Line regulation	V_O	$T_j=25$ $V_I=-14.5\text{V}\sim -30\text{V}$			240	mV
		$T_j=25$ $V_I=-16\text{V}\sim -22\text{V}$			120	mV
Quiescent Current	I_q	$T_j=25$			6.0	mA
Quiescent Current Change	I_q	$V_I=-14.5\text{V}\sim -30\text{V}$			1.0	mA
		$I_O=5\text{mA}\sim 1\text{A}$			0.5	mA
Output Voltage Drift	V_O / T	$I_O=5\text{mA}$		1.2		mV/
Output Noise Voltage	V_N	$B=10\text{Hz}\sim 100\text{KHz}$ $T_j=25$		200		V
Supply Voltage Rejection	SVR	$V_I=10\text{V}$ $f=120\text{Hz}$	54			dB
Dropout Voltage	V_d	$I_O=1\text{A}$ $T_j=25$		2.0		V
Short Circuit Current	I_{sc}	$V_I=-35\text{V}$ $T_j=25$		10		mA
Short Circuit Peak Current	I_{scp}	$T_j=25$		2.1		A

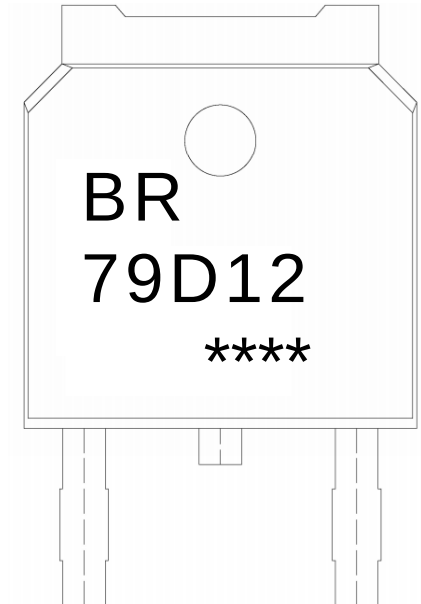


单位: mm

Symbol	Dimensions In Millimeters		Symbol	Dimensions In Millimeters	
	Min	Max		Min	Max
6.25	6.25	6.25	2.40	2.40	2.40
2.34	2.34	2.34	1.25	1.25	1.25
L1	9.85	10.35	b1	0.45	0.55
C	0.45	0.55	2	1.70	2.00
L3	0.60	0.90	D	6.45	6.75
K	0.00	0.10	D1	5.10	5.50

J-252

TC



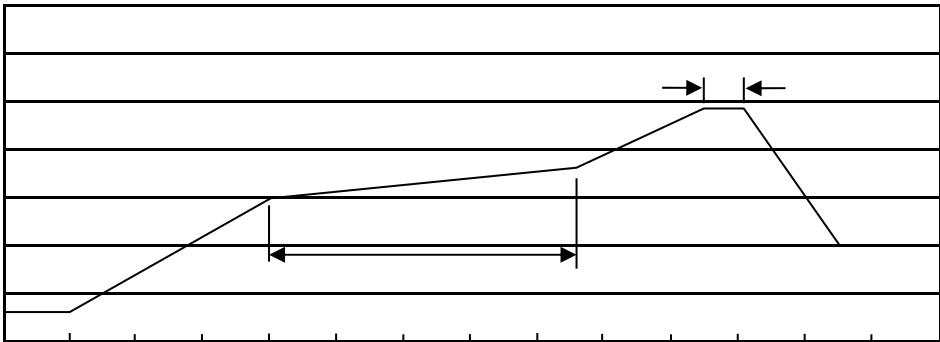
Note:

BR: Company Code

79D12: Product Type

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

Temperature Profile for IR Reflow Soldering(Pb-Free)



Note:

- 1

150 180

60 90sec;
- 2

245 5

5 0.5sec;
- 3

2 10

/sec.
- 1.Preheating:150~180

,

Time:60~90sec.
- 2.Peak Temp.:245 5

,

Duration:5 0.5sec.
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)		
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)		
TO-251/252	75	48	3,600	5	18,000	526×20.5×5.25	555×164×50	575×290×180