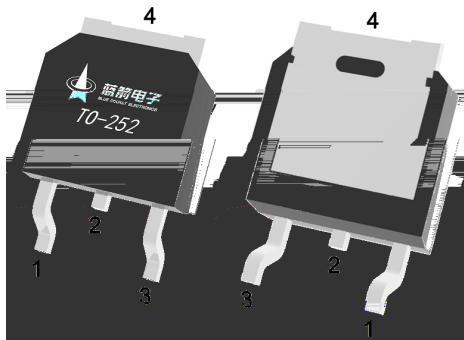


TO-252 Voltage Regulator in a TO-252 Plastic Package.

1.0A,
3-Terminal regulators ,output current up to 1.0A, internal thermal overload protection and short-circuit limiting, HF Product.

Voltage Regulator.



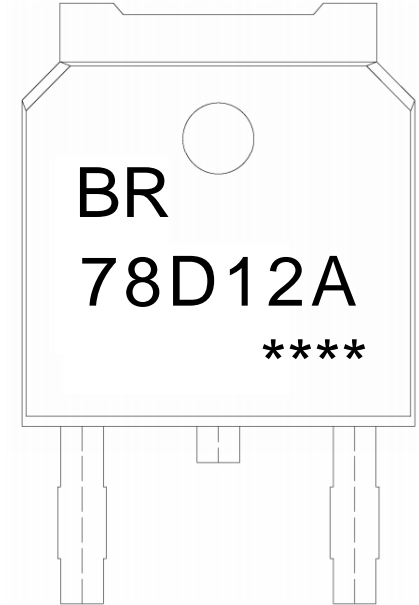
PIN1 IN PIN 2 4 GND PIN 3 OUT

See Marking Instructions.

Parameter	Symbol	Rating	Unit
Input voltage	V_I	7~35	V
Power Dissipation	P_D	Internally Limited	W
Thermal Resistance Junction-ambient	R_{JA}	105	$^{\circ}C/W$
Thermal Resistance Junction-case	R_{JC}	10	$^{\circ}C/W$
Operating Temperature Range	T_{OPR}	-40 125	$^{\circ}C$
Storage temperature range	T_{stg}	-65 150	$^{\circ}C$

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Output Voltage	V_o	$T_j=25^{\circ}C$	11.5	12.0	12.5	V
		$V_i=14.5V\sim 27V$ $I_o=5mA\sim 1.0A$ P_D 15W	11.4	12.0	12.6	V
Load Regulation	V_{Load}	$T_j=25^{\circ}C$ $I_o=5mA\sim 1.0A$			240	mV
		$T_j=25$ $I_o=250mA\sim 750mA$			120	mV
Line Regulation	V_{Line}	$T_j=25^{\circ}C$ $V_i=14.5V\sim 30V$			240	mV
		$T_j=25^{\circ}C$ $V_i=16V\sim 22V$			120	mV
Quiescent Current	I_q	$T_j=25$			8.0	mA
Quiescent Current Change	I_q	$V_i=14.5V\sim 30V$			1.0	mA
		$I_o=5mA\sim 1.0A$			0.5	mA
Output Voltage Drift	V_o/ T	$I_o=5mA$ $T_j=0\sim 125$		-1.0		mV/ $^{\circ}C$
Output Noise Voltage	eN	B=10Hz~100KHz $T_j=25$		75		$\mu V/V_o$
Supply Voltage Rejection	SVR	$V_i=15V\sim 25V$ f=120Hz	55			dB
Dropout Voltage	V_d	$I_o=1.0A$ $T_j=25$		2.0		V
Output Resistance	R_o	f=1KHz		18		m
Short Circuit Current	Isc	$V_i=35V$ $T_j=25$		200		mA



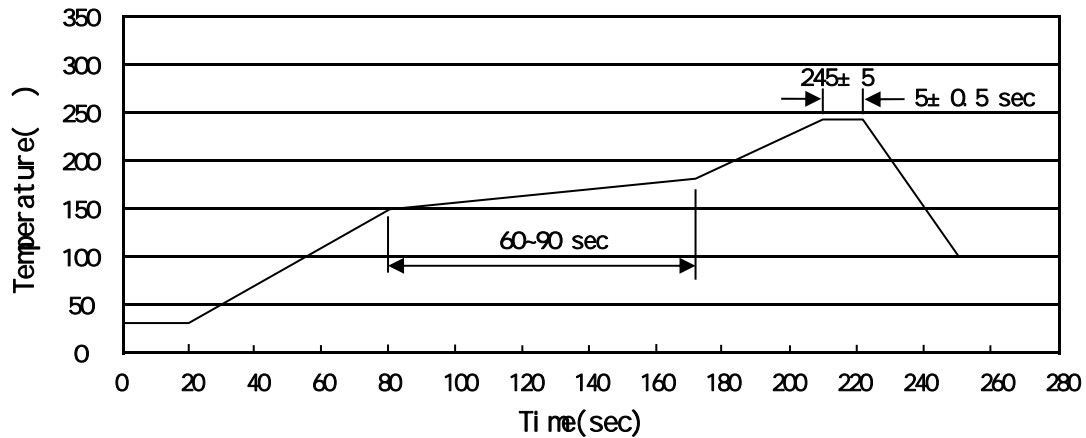


Note:

BR: Company Code

78D12A: 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. |

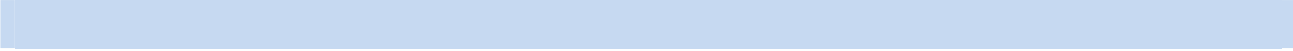
260 ± 5 10 ± 1 sec. Temp.:260±5°C Time:10±1 sec

/ 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



PCB