

TO-252

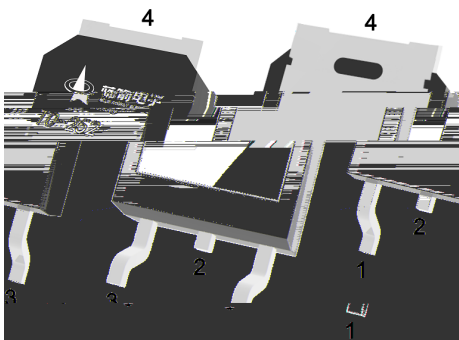
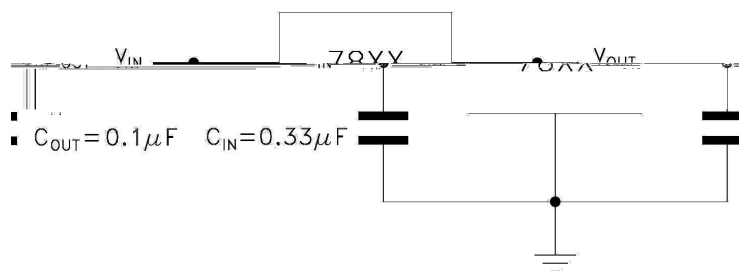
Voltage Regulator in a TO-252 Plastic Package.

1.5A,

AEC-Q100

3-Terminal regulators ,output current up to 1.5 A, internal thermal overload protection and short-circuit limiting, Qualified to AEC-Q100 Standards for High Reliability, HF Product.

Voltage Regulator, Meet the stringent requirements of automotive applications.



PIN1 IN PIN 2 4 GND PIN 3 OUT

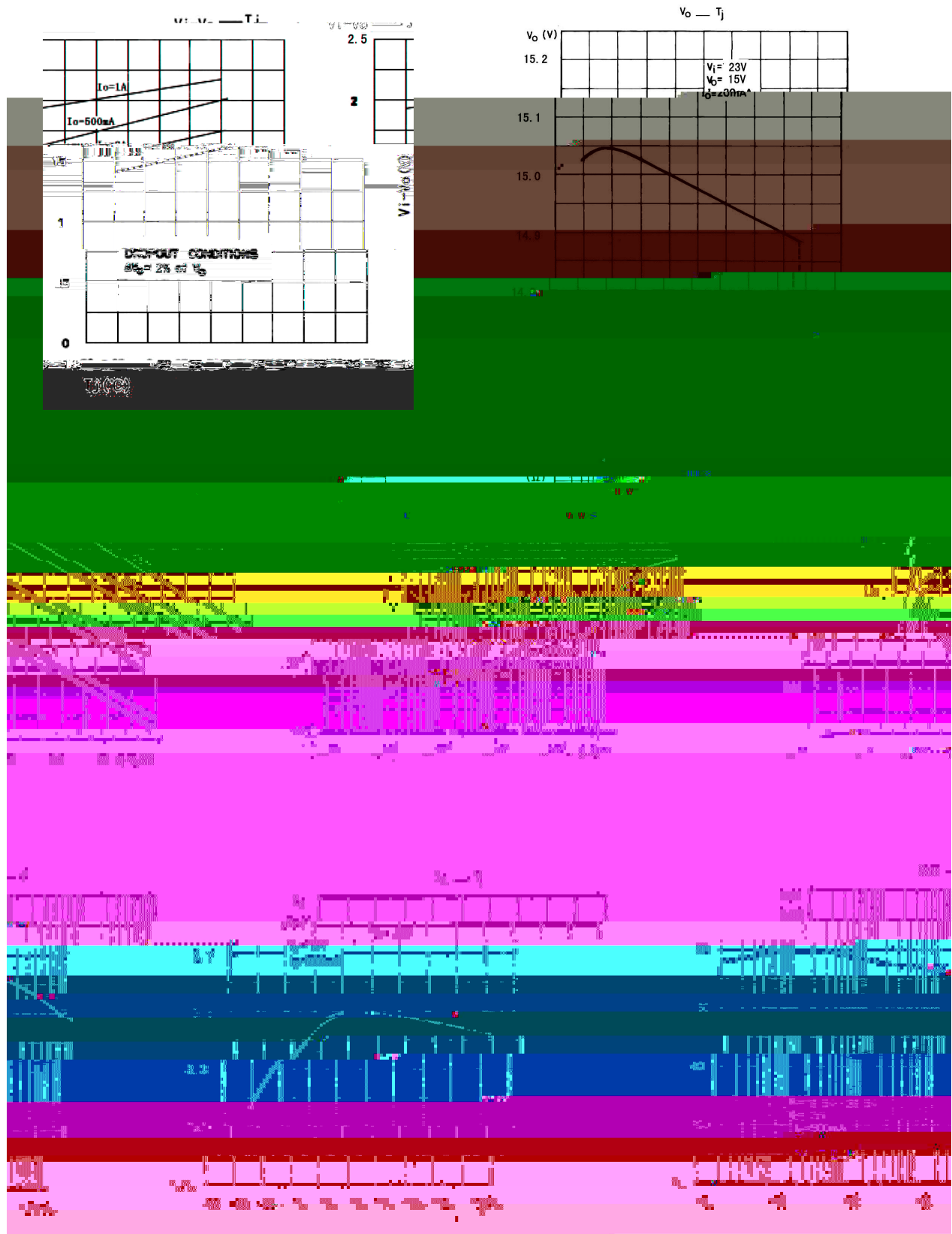
See Marking Instructions.

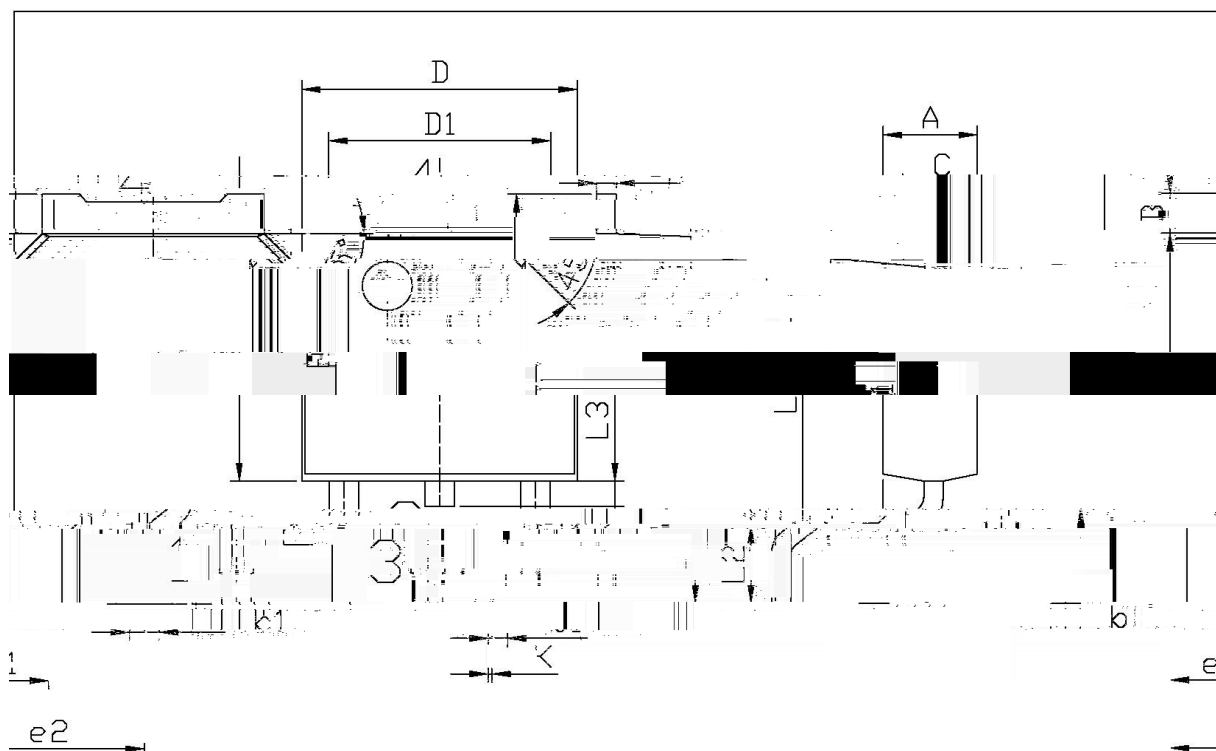
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Parameter	Symbol	Rating	Unit
Input Voltage Difference	V_I	35	V
Power Dissipation	P_D	Internally Limited	W
Junction-to-Ambient	R_{JA}	105	/W
Junction-to-Case	R_{JC}	10	/W
Operating Temperature Range	T_{OPR}	-40 125	
Storage temperature range	T_{stg}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

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

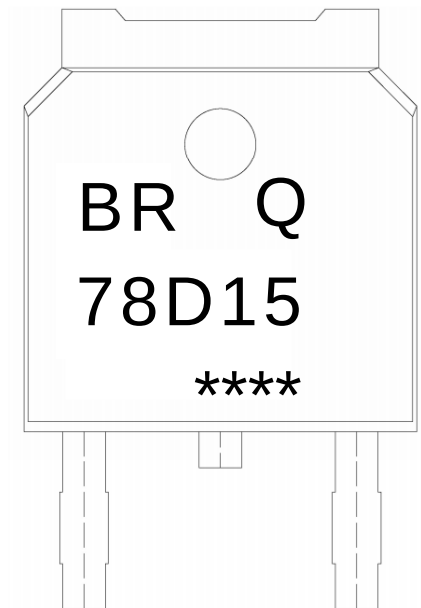




单位: mm

Symbol	Dimensions In Millimeters		Symbol	Dimensions In Millimeters	
	Min	Max		Min	Max
5.95	6.25	6.25	2.20	2.40	2.40
e1	2.24	2.34	B	0.95	1.25
e2	2.24	2.34	B	0.70	0.90
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
D	6.50	6.75	A1	5.10	5.10

T0-252



BR

Q

78D15

Note:

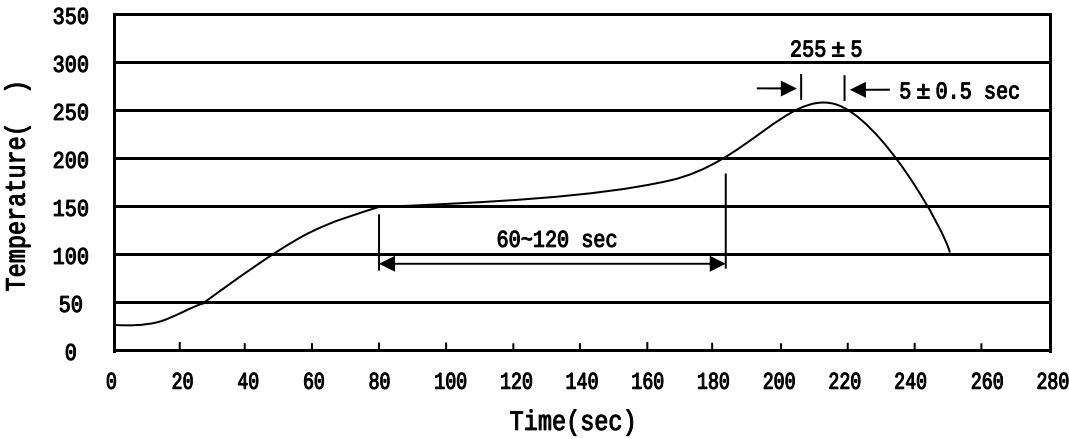
BR: Company Code

Q: Automobile halogen-free product Code

78D15: Product Type

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

Whp shudwxuh Suriloh i ru LU Uhior z Vroghulqj+Se0luhh,



Note:

- 1

150 200

60 120sec;

1.Preheating:150~200 , Time:60~120sec.
- 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.

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

PCB