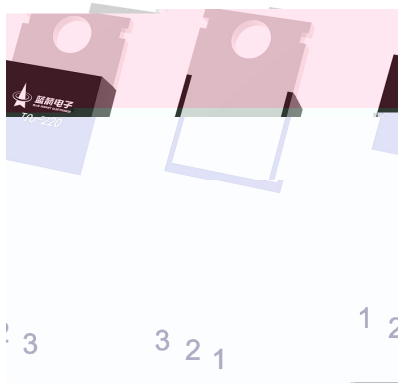
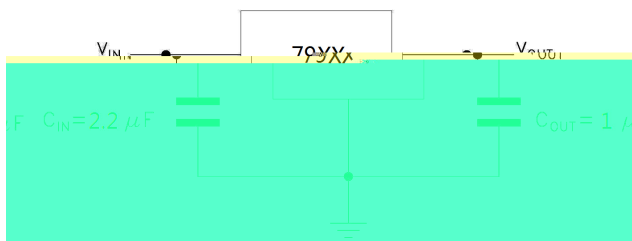


TO-220 Voltage Regulator in a TO-220 Plastic Package.

AEC-Q100

3-Terminal regulators ,output current up to 1.5A, 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 GND PIN 2 IN PIN 3 OUT

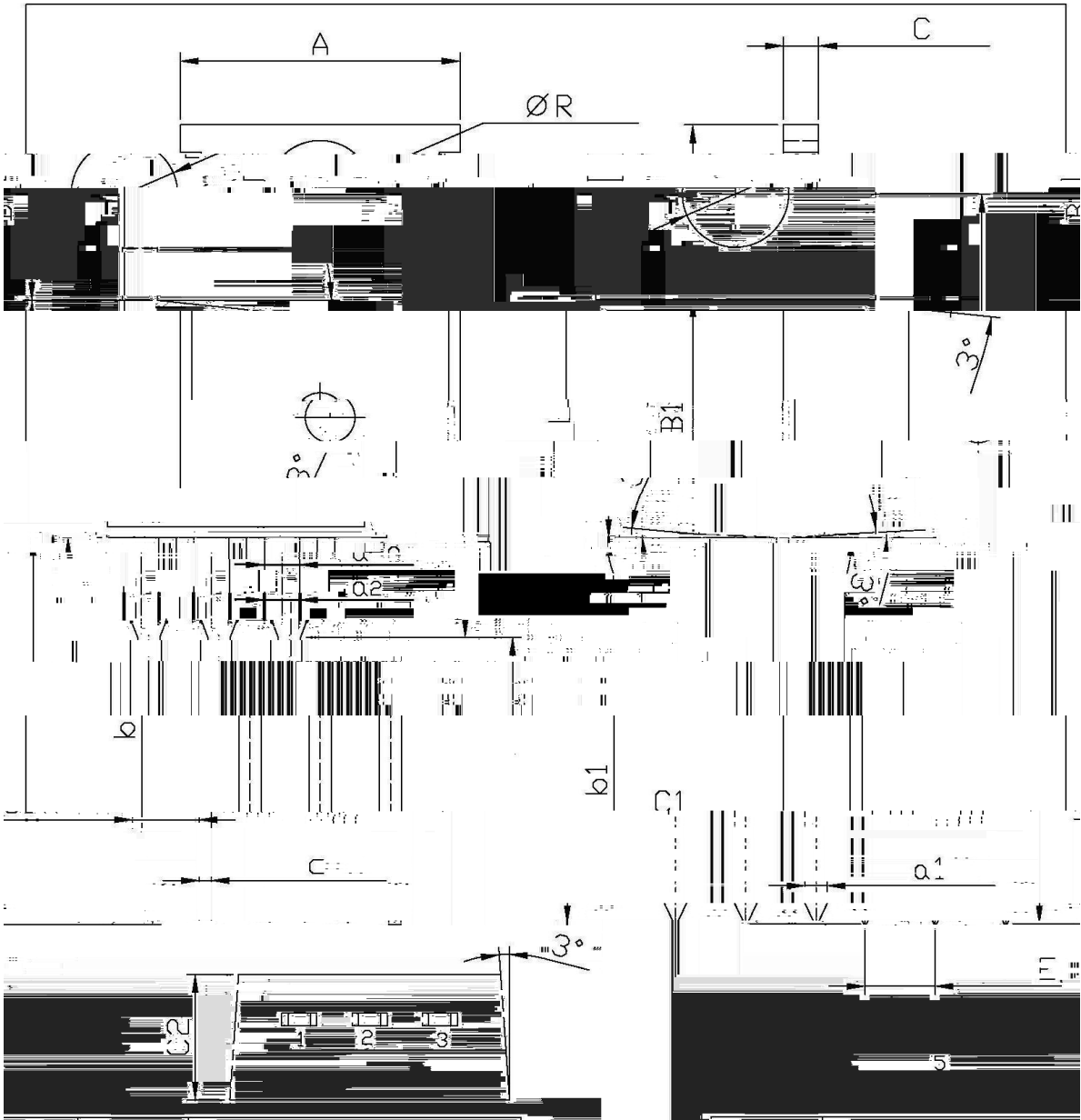
See Marking Instructions.

Parameter	Symbol	Rating	Unit
Input voltage	V_I	-35	V
Thermal Resistance Junction-Ambient	$R_{\theta JA}$	62.5	/W
Thermal Resistance Junction-Case	$R_{\theta JC}$	5	/W
Operating Junction Temperature Range	T_{OPR}	-40 125	
Storage temperature range	T_{stg}	-65 150	

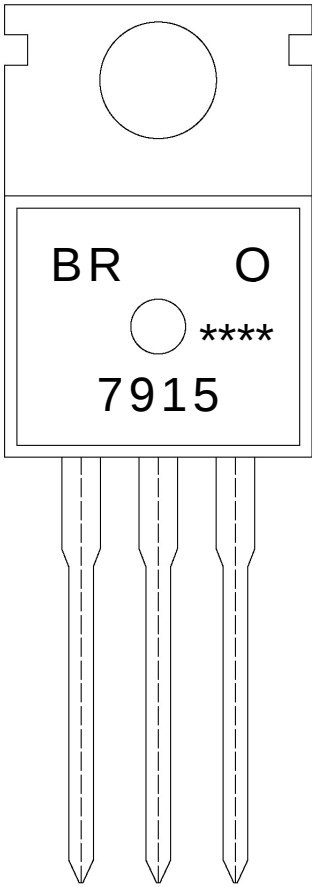
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Output voltage	V_O	$T_J=25^{\circ}\text{C}$	-14.4	-15.0	-15.6	V
		$I_O=5\text{mA}\sim 1\text{A}$ $P_O\leq 15\text{W}$ $V_I=-17\text{V}\sim -30\text{V}$	-14.25	-15.0	-15.75	V
Load Regulation	V_O	$T_J=25$ $I_O=5.0\text{mA}\sim 1.5\text{A}$			300	mV
		$T_J=25$ $I_O=250\text{mA}\sim 750\text{mA}$			150	mV
Line regulation	V_O	$T_J=25$ $V_I=-17.5\text{V}\sim -30\text{V}$			300	mV
		$T_J=25$ $V_I=-20\text{V}\sim -26\text{V}$			150	mV
Quiescent Current	I_q	$T_J=25$			6.0	mA
Quiescent Current Change	I_q	$V_I=-17.5\text{V}\sim -30\text{V}$			1.0	mA
		$I_O=5\text{mA}\sim 1\text{A}$			0.5	mA
Output Voltage Drift	V_O/ T	$I_O=5\text{mA}$		1.5		mV/
Output Noise Voltage	V_N	$B=10\text{Hz}\sim 100\text{KHz}$ $T_J=25$		250		μV
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

TO-220

单位: mm

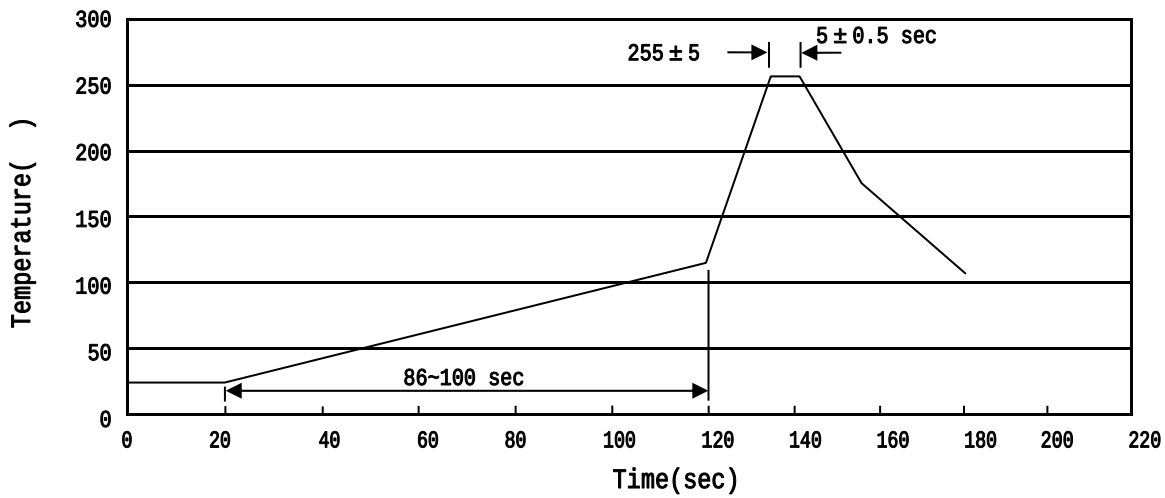


Dimensions In Millimeters				Dimensions In Millimeters			
	Max	Symbol	Min		Max	Symbol	Min
1	1.4	A	9.8	1	10.2	C	16.0
3	6.7	R	3.56	2	3.64	B	6.35
4	9.4	L	15.7	3	16.1	B1	19.0
2	2.6	b1	12.6	4	13.6	C1	12.7



Q

- Note:
- BR: Company Code
 - Q: Automobile halogen-free product Code
 - 7915: Product Type
 - ****: Lot No. Code, code change with Lot No



Note:

- 1

25 150

60 90sec;

1.Preheating:25~150 , Time:60~90sec.
- 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.

270 5

10 1 sec.

Temp.:270±5℃

Time:10±1 sec

/ BULK

Package Type	Units					Dimension (unit mm ³)		
TO-220/F	200	10	2,000	5	10,000	135×190	237×172×102	560×245×195

/ TUBE

Package Type	Units					Dimension (unit mm ³)		
TO-220/F	50	20	1,000	5	5,000	532×31.4×5.5	555×164×50	575×290×180