

BR79D12Q

Rev.B Jul.-2024



DATA SHEET

TO-252

Voltage Regulator in a TO-252 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.

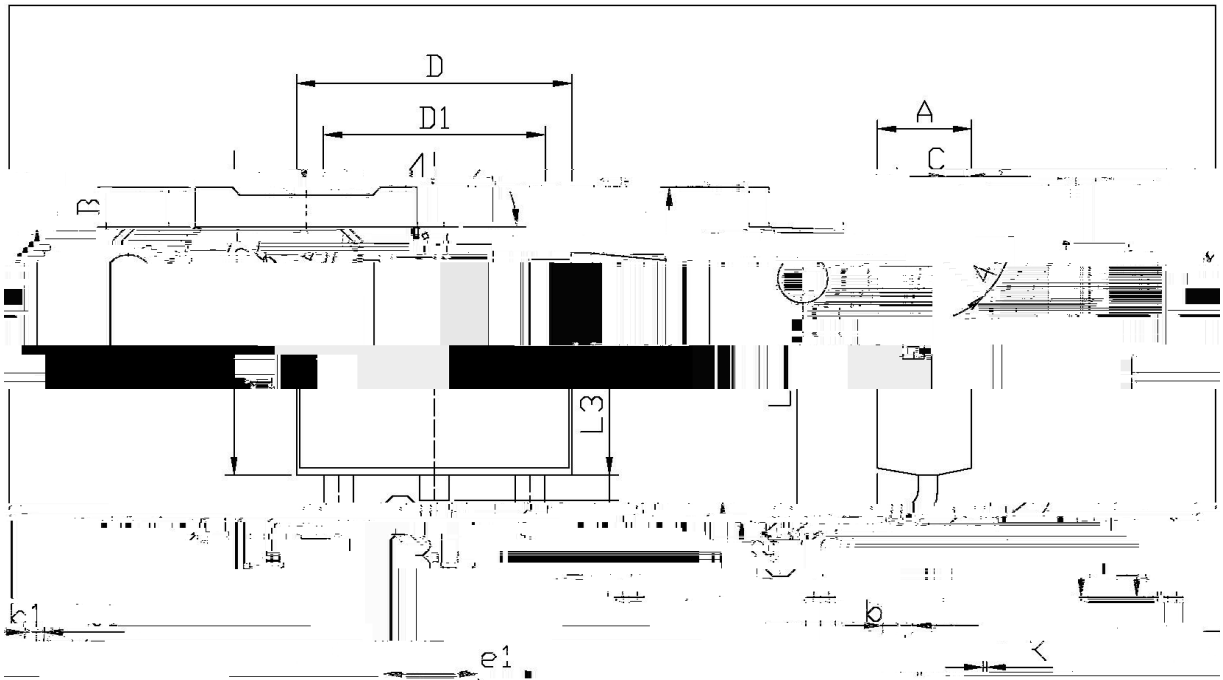
Voltage Regulator, Meet the stringent requirements of automotive applications.

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Parameter	Symbol	Rating	Unit
Input voltage	V_i	-35	V
Thermal Resistance Junction-Ambient	R_{JA}	105	/W
Thermal Resistance Junction-Case	R_{JC}	10	/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	$T_j=25$	-11.5	-12.0	-12.5	V
		$I_o=5mA\sim 1A$ $P_o 15W$ $V_i=-14V\sim -27V$	-11.4	-12.0	-12.6	V

/ Package Dimensions

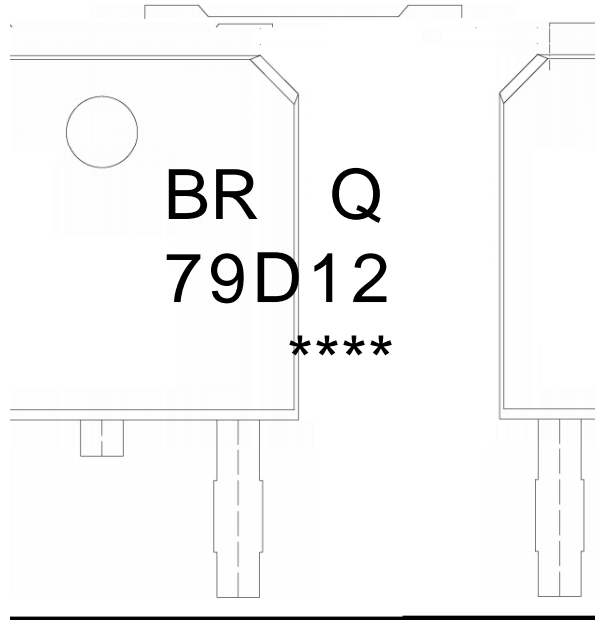


单位: mm

Dimensions		Millimeters		Dimensions		In Millimeters	
Symbol	Value	Symbol	Value	Symbol	Value	Symbol	Value
Min	Max	Min	Max	Min	Max	Min	Max
2.30	2.50	0.95	1.25	e1	2.24		
0.35	0.50	0.20	0.60				
0.35	0.50	0.25	0.55				
0.45	0.55	0.45	0.55				
6.75	6.75	0.68	0.90				
0.10	0.10	5.10	5.50	0.60	0.10		

T0-252

/ Marking Instructions



Q

Note:

BR: Company Code

Q: Automobile halogen-free product Code

79D12: Product Type

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

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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.

/ **Resistance to Soldering Heat Test Conditions**

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

