

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.

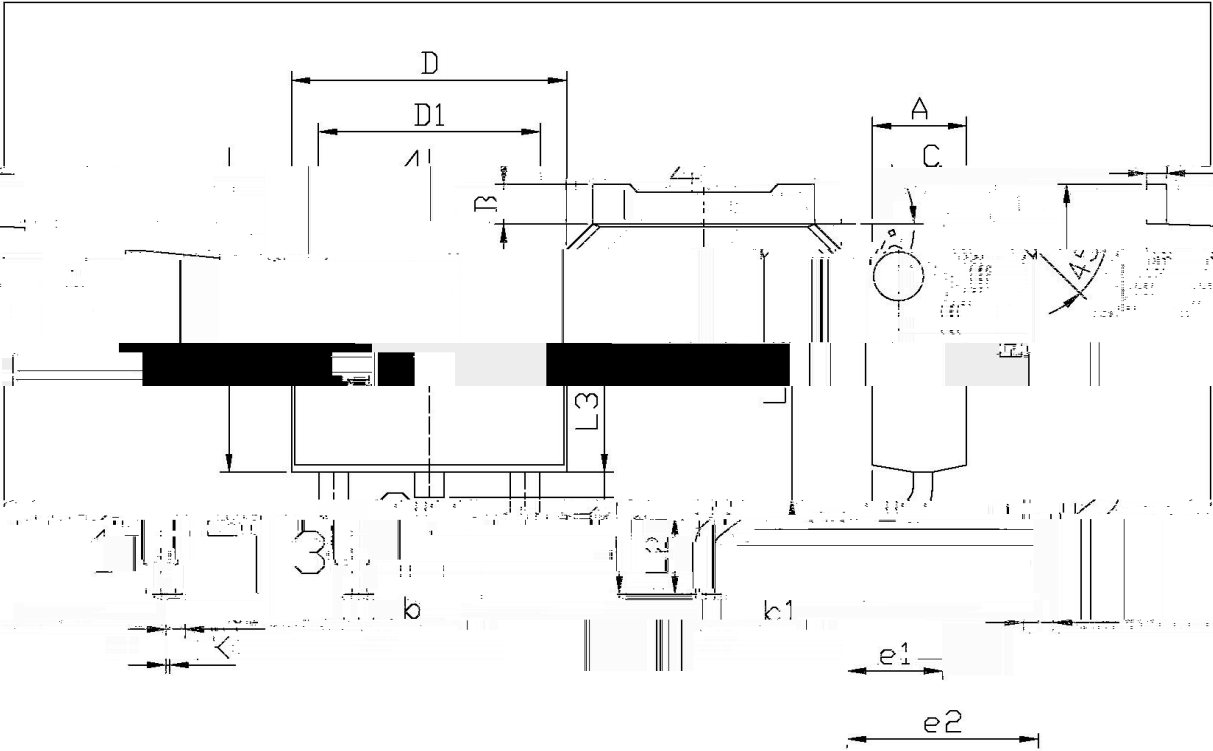
Voltage Regulator, Meet the stringent requirements of automotive applications.

/

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

/ Package Dimensions



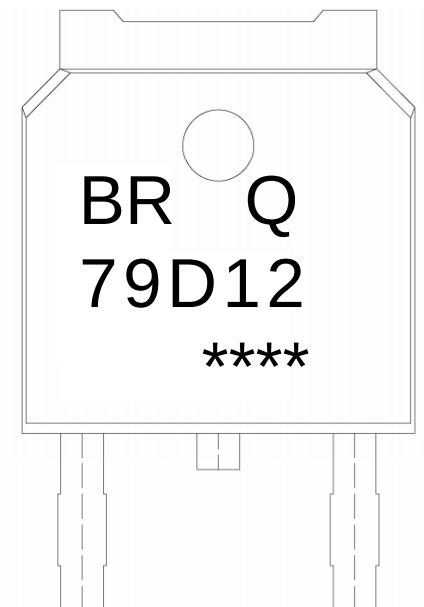
单位: mm

Symbol		Dimensions In Millimeters		Symbol		Dimensions In Millimeters	
		Min	Max			Min	Max
A	2.90	2.40	3.40	B	0.95	1.25	1.55
C	5.95	5.45	6.45	e1	2.00	1.75	2.25
D	6.45	6.10	6.80	e2	2.00	1.75	2.25
D1	5.50	5.10	5.90	J2	1.70	1.45	1.95
K	0.60	0.50	0.70	L2	1.70	1.45	1.95
L3	0.55	0.45	0.65	L3	0.55	0.45	0.65
L2	0.55	0.45	0.65	L2	0.55	0.45	0.65
k	0.60	0.50	0.70	k	0.60	0.50	0.70
k1	0.60	0.50	0.70	k1	0.60	0.50	0.70
e1	2.00	1.75	2.25	e1	2.00	1.75	2.25
e2	2.00	1.75	2.25	e2	2.00	1.75	2.25

-252

T□-

/ Marking Instructions



Q

Note:

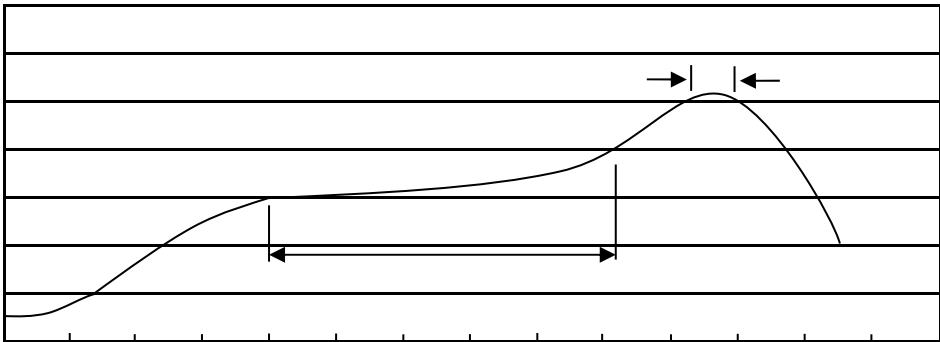
BR: Company Code

Q: Automobile halogen-free product Code

79D12: Product Type

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

() /



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

/ Packaging SPEC.

/ REEL

Package Type	Units					Dimension (unit mm ³)		
	Units/Reel /	Reels/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Reel	Inner Box	Outer Box
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)		
	Units/Tube /	Tubes/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Tube	Inner Box	Outer Box
TO-251/252	75	48	3,600	5	18,000	526×20.5×5.25	555×164×50	575×290×180

/ Notices