

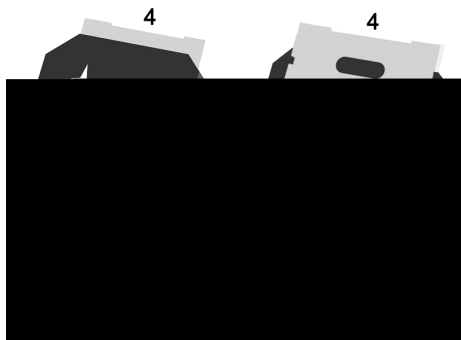
TO-252 Voltage Regulator in a TO-252 Plastic Package.

1.0A,

AEC-Q100

3-Terminal regulators ,output current up to 1.0A, 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.

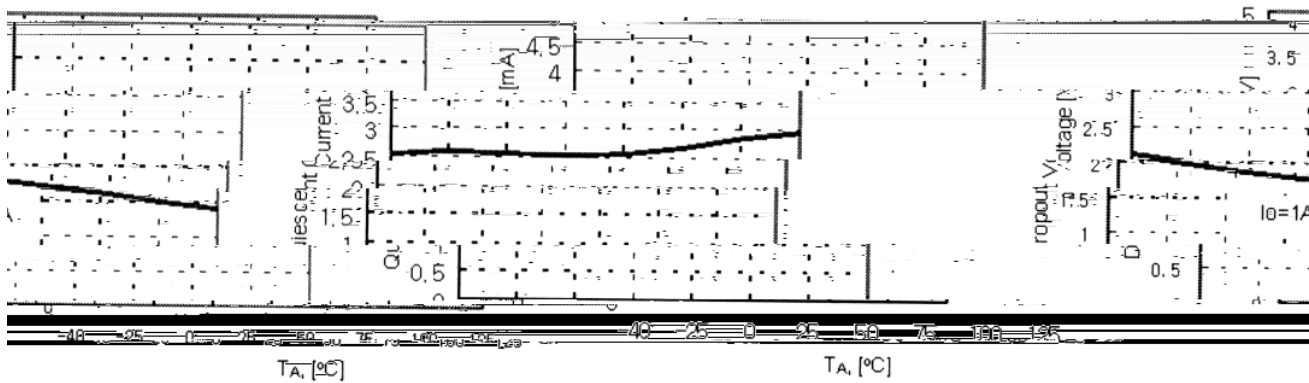
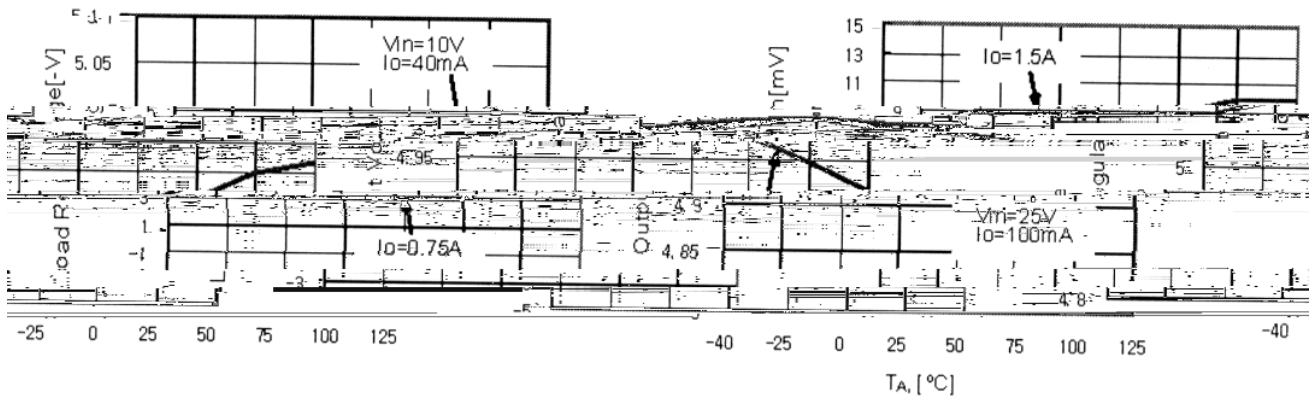


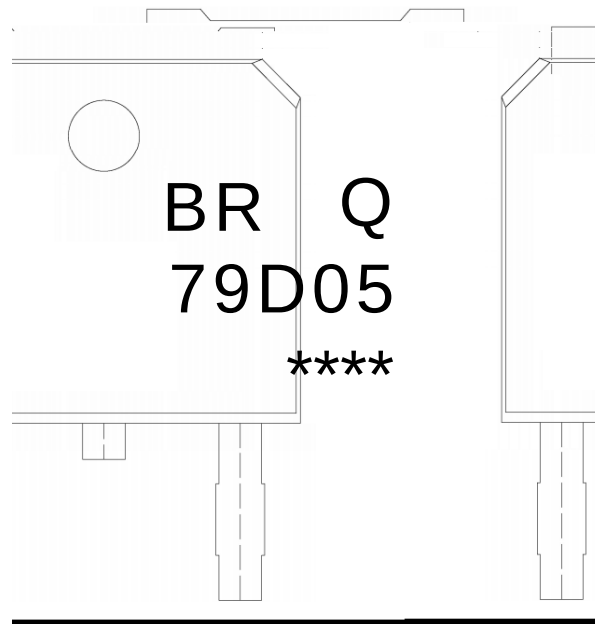
PIN1 GND PIN 2 4 IN PIN 3 OUT

See Marking Instructions.

Parameter	Symbol	Rating	Unit
Input Voltage Difference	V_I	-35	V
Junction-to-Ambient	R_{JA}	65	/W
Junction-to-Case	R_{JC}	5	/W
Operating Temperature Range	T_{OPR}	-40 125	
Storage temperature range	T_{stg}	-65 +150	

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Line regulation	V_O	$T_j=25$	-4.8	-5.0	-5.2	V
		$V_i=8$ to 20V, $I_o=-5mA$ to -1A, P_o 15W	-4.75	-5.0	-5.25	
Load Regulation	V_O	$T_j=25$ $I_o=5mA$ to 1.5A			100	mV
		$T_j=25$ $I_o=250mA$ to 750mA			50	
Load Regulation	V_O	$T_j=25$ $V_i=-7V$ to -25V			100	mV
		$T_j=25$ $V_i=-8V$ to -12V			50	
Bias current	I_d	$T_j=25$			8.0	mA
Bias current change	I_d	$V_i=-8V$ to -25V			0.8	mA
		$I_o=5mA$ to 1A			0.5	mA
Ratio of Change in VREF to Cathode Voltage	V_O/ T	$I_o=5mA$		-0.4		mV/
RMS Noise vs. %of VOUT	eN	B=10Hz to 100KHz $T_j=25$		100		V
Ripple Rejection	SVR	$V_i=10V$ $f=120Hz$	54	60		dB
Dropout voltage	V_d	$I_o=1A$ $T_j=25$ $V_O=100mV$		1.4		V
Short Circuit Current Limit	Isc			2.1		A





BR

Q

79D05

Note:

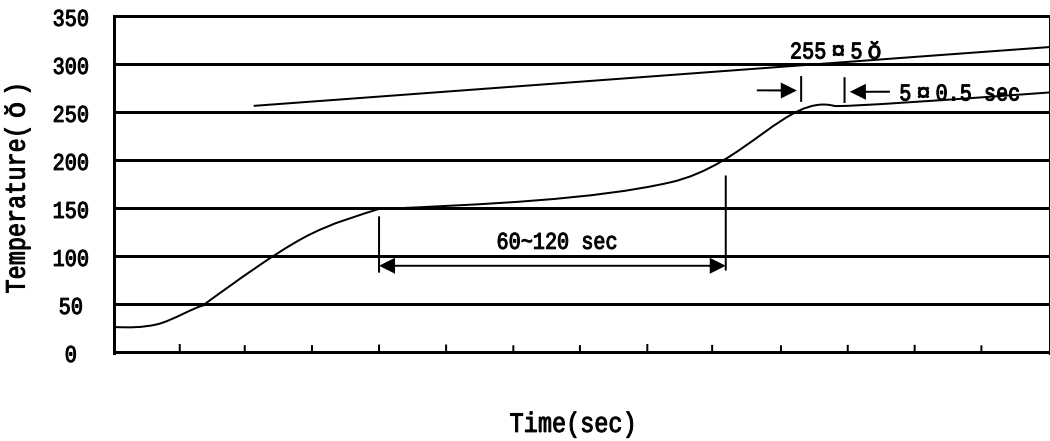
BR: Company Code

Q: Automobile halogen-free product Code

79D05: Product Type

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

Temperature Profile for IR Reflow Soldering(Pb-Free)



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