

TO-220

Voltage Regulator in a TO-220 Plastic Package.

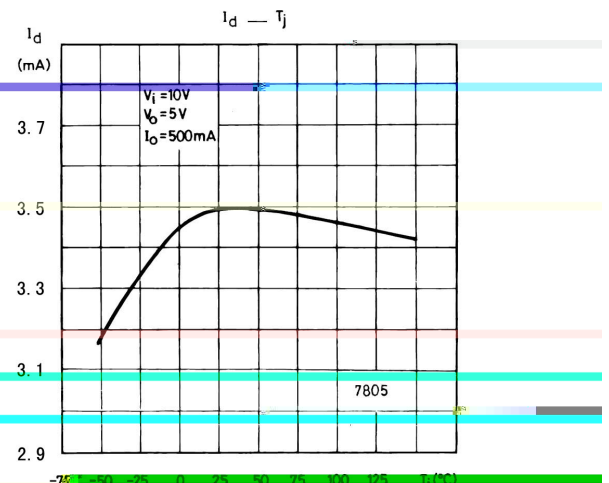
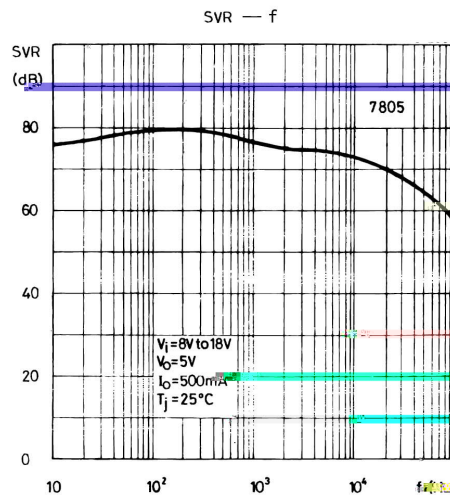
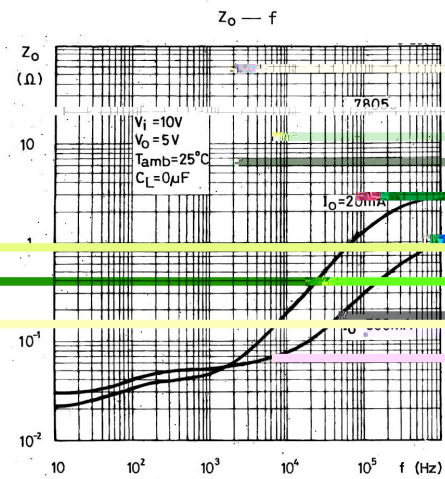
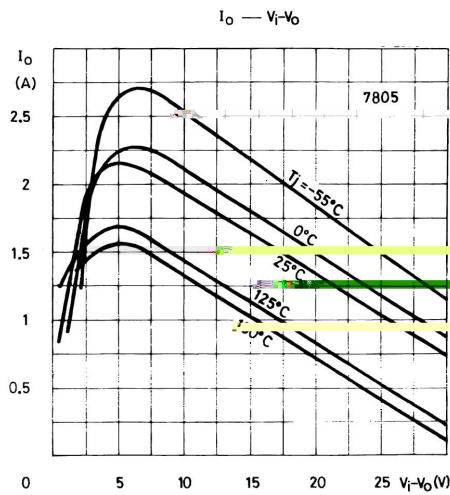
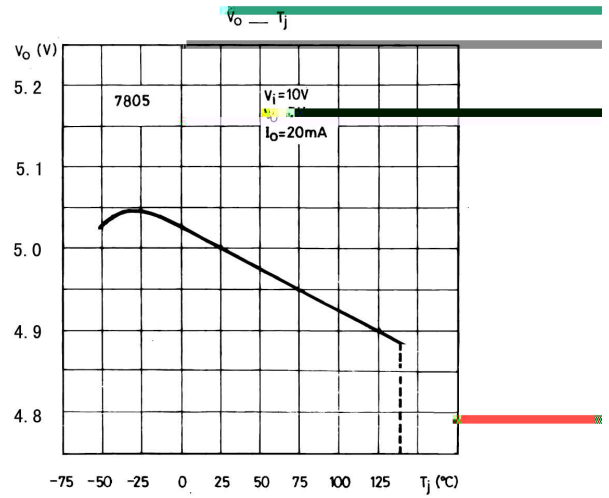
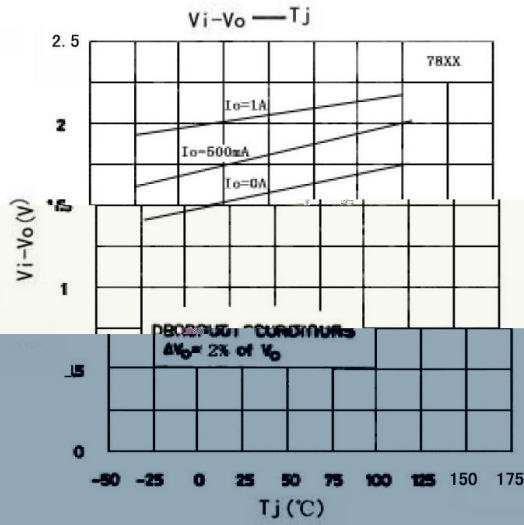
1.5A,

AEC-Q100

Parameter	Symbol	Rating	Unit
Input voltage	V_i	35	V
Thermal Resistance Junction-ambient	$R_{\theta JA}$	62.5	/W
Thermal Resistance Junction-case	$R_{\theta JC}$	5.0	/W
Junction Temperature	T_J	150	
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	$T_J=25$	4.8	5.0	5.2	V
		$V_i=7V-20V$ $I_o=5mA-1A$ $P_o \leq 15W$	4.75	5.0	5.25	V
Load Regulation	V_{Load}	$T_J=25$ $I_o=5mA-1.5A$			100	mV
		$T_J=25$ $I_o=250mA-750mA$			50	mV
Line Regulation	V_{Line}	$T_J=25$ $V_i=7V-25V$		3.0	100	mV
		$T_J=25$ $V_i=8V-12V$		1.0	50	mV
Quiescent Current	I_q	$T_J=25$			8.0	mA
Quiescent Current Change	I_q	$V_i=7V-25V$			0.8	mA
		$I_o=5mA-1A$			0.5	mA
Output Voltage Drift	V_o/ T	$I_o=5mA$		-1.1		mV/

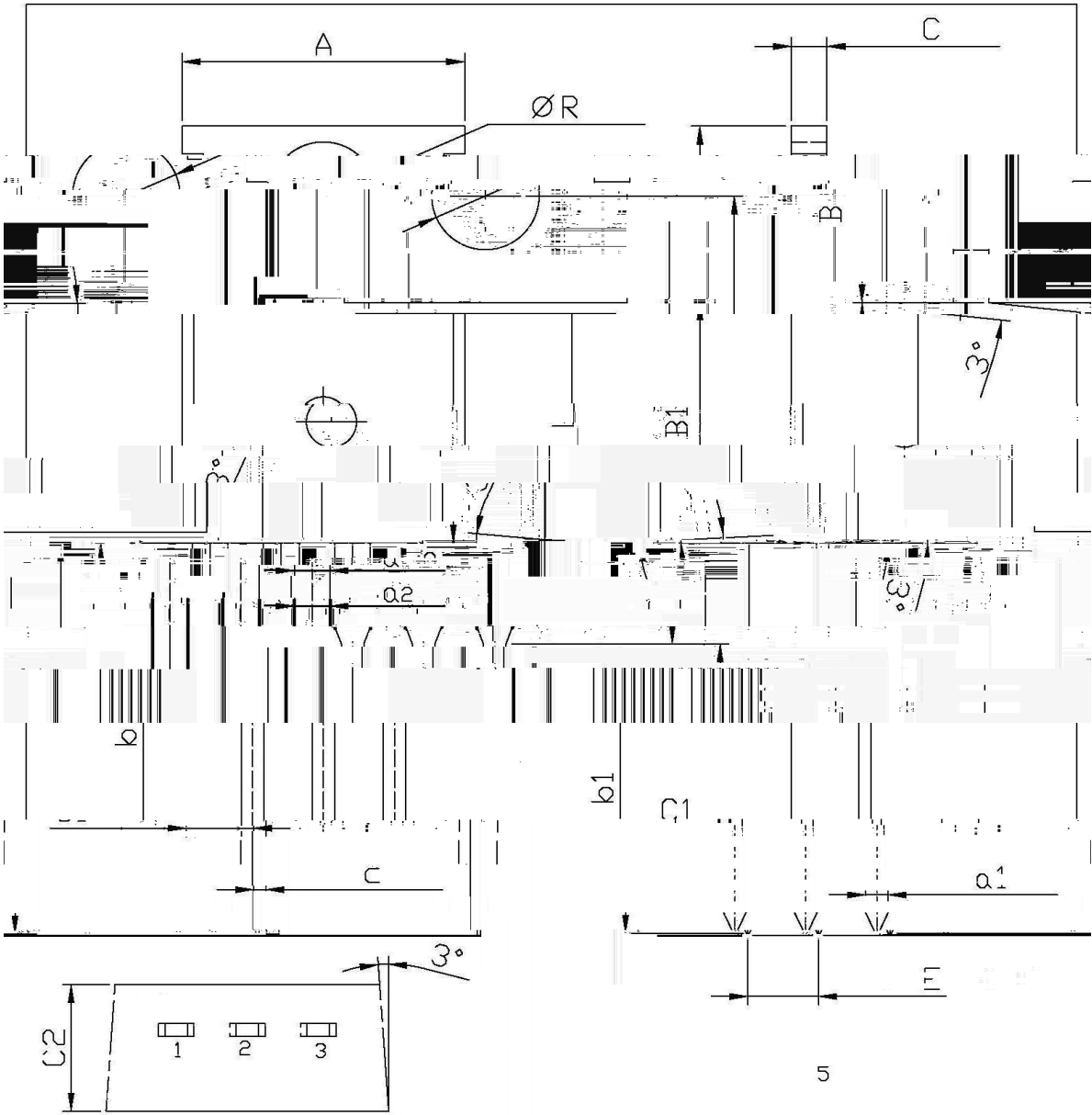
/ Electrical Characteristic Curve



/ Package Dimensions

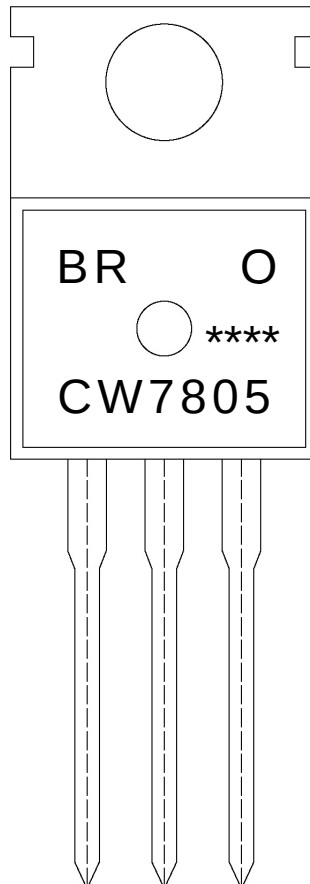
TQ-220

单位: mm



Dimensions In Millimeters				Dimensions In Millimeters			
n	Max	Symbol	Min	n	Max	Symbol	Min
2	14	A	9.8	1	10.2	C	6.1
3	6.7	R	3.56	1	3.64	B	6.1
0	9.4	C1	15.7	1	16.1	B1	9.1
2	2.6	b1	12.6	1	13.6	a1	2.6

/ Marking Instructions



BR

Q

CW7805

Note:

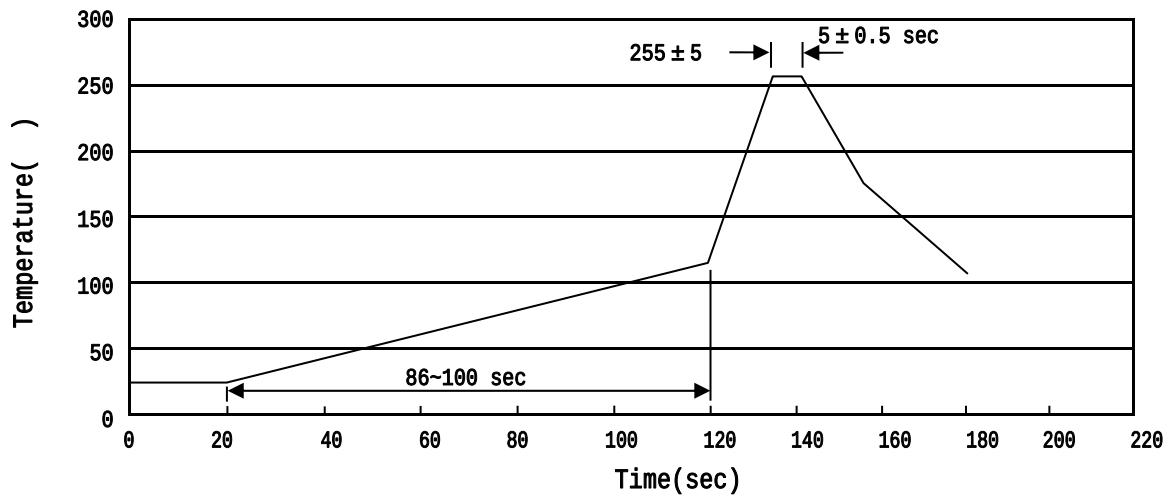
BR: Company Code

Q: Automobile halogen-free product Code

CW7805: Product Type Code

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

() / **Temperature Profile for Dip Soldering(Pb-Free)**



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. |

/ **Resistance to Soldering Heat Test Conditions**

270±5 10±1 sec. Temp.:270±5 Time:10±1 sec

/ **Packaging SPEC.**

/ **BULK**

Package Type	Units					Dimension (unit mm ³)		
	Units/Bag /	Bags/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Bag	Inner Box	Outer Box
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)		
	Units/Tube /	Tubes/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Tube	Inner Box	Outer Box
TO-220/F	50	20	1,000	5	5,000	532×31.4×5.5	555×164×50	575×290×180

/ **Notices**