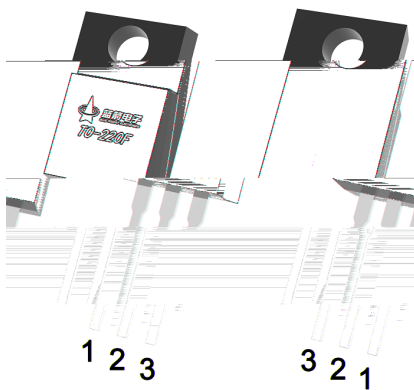


TO-220F Voltage Regulator in a TO-220F Plastic Package.

1.5A,
3-Terminal regulators ,output current up to 1.5A, internal thermal overload protection and short-circuit limiting.

Voltage Regulator.

/ / **Equivalent Circuit or Application Circuit**



PIN1

/ Absolute Maximum Ratings(Ta=25 –)

Parameter	Symbol	Rating	Unit
Input voltage	V _I	35	V
Thermal Resistance Junction-ambient	R _{JA}	60	/W
Thermal Resistance Junction-case	R _{JC}	5.0	/W
Operating Temperature Range	T _{OPR}	-40 125	
Storage temperature range	T _{stg}	-65 150	

/ Electrical Characteristics(Ta=25 – V_I=10V,I_o=500mA unless otherwise specified)

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 15W	4.75	5.0	5.25	V
Load Regulation	V _O	T _J =25 I _o =5mA-1.5A			100	mV
		T _J =25 I _o =250mA-750mA			50	mV
Line regulation	V _O	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/
Output Noise Voltage	e _N	B=10Hz-100KHz T _J =25			40	V/V _O
Supply Voltage Rejection	SVR	V _I =8V-18V f=120Hz	62			dB
Dropout Voltage	V _d	I _o =1A T _J =25		2.0		V
Output Resistance	R _O	f=1KHz		17		m
Short Circuit Current	I _{sc}	V _I =35V T _J =25		0.75		A
Short Circuit Peak Current	I _{scp}	T _J =25		2.2		A

7805F

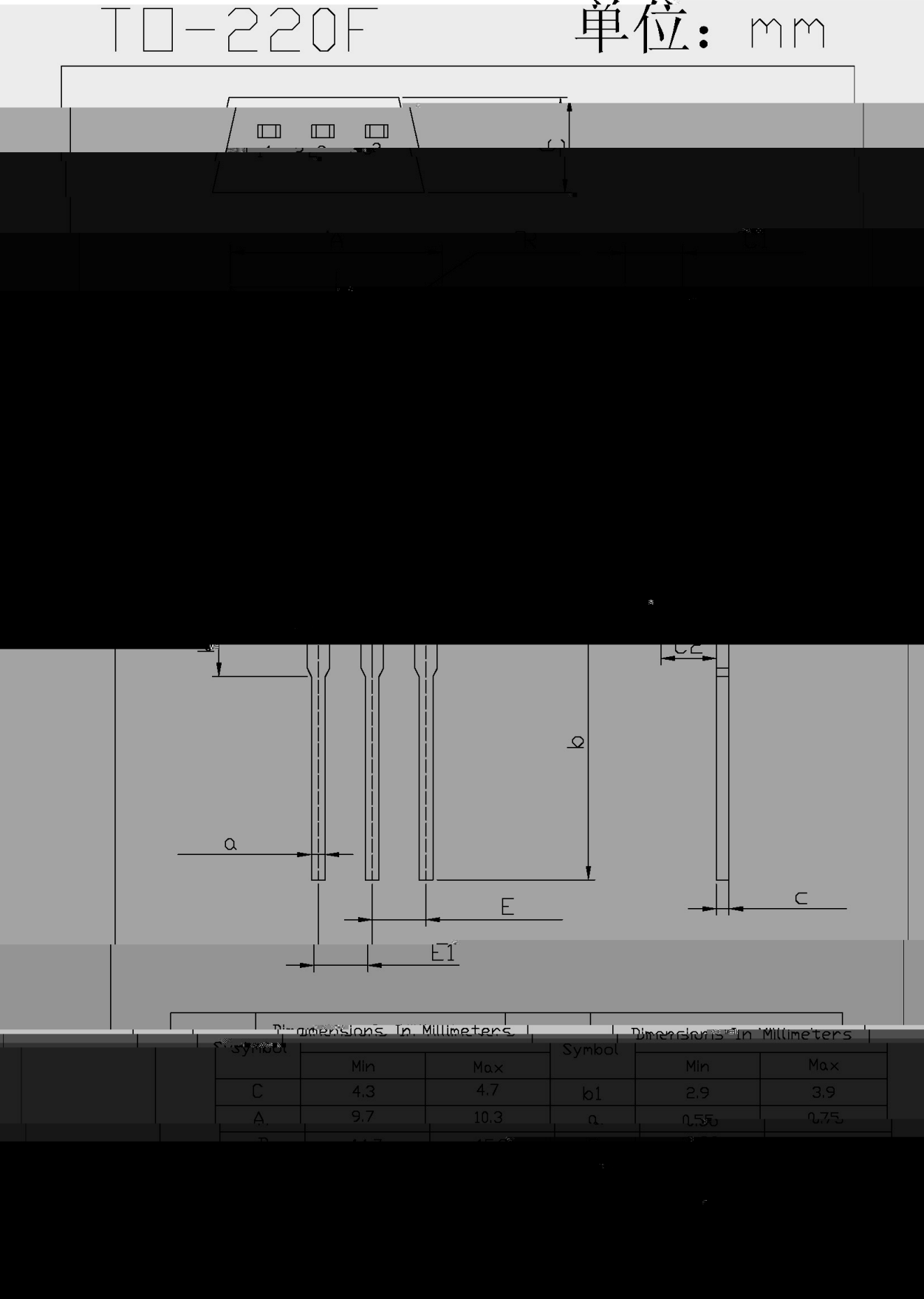
Rev.G Jun.-2024



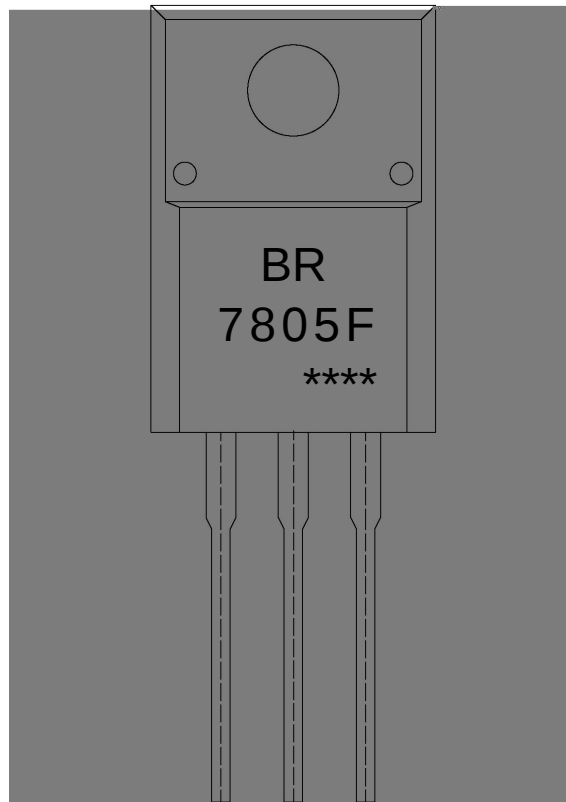
蓝箭电子
BLUE ROCKET ELECTRONICS

DATA SHEET

/ Package Dimensions



/ **Marking Instructions**



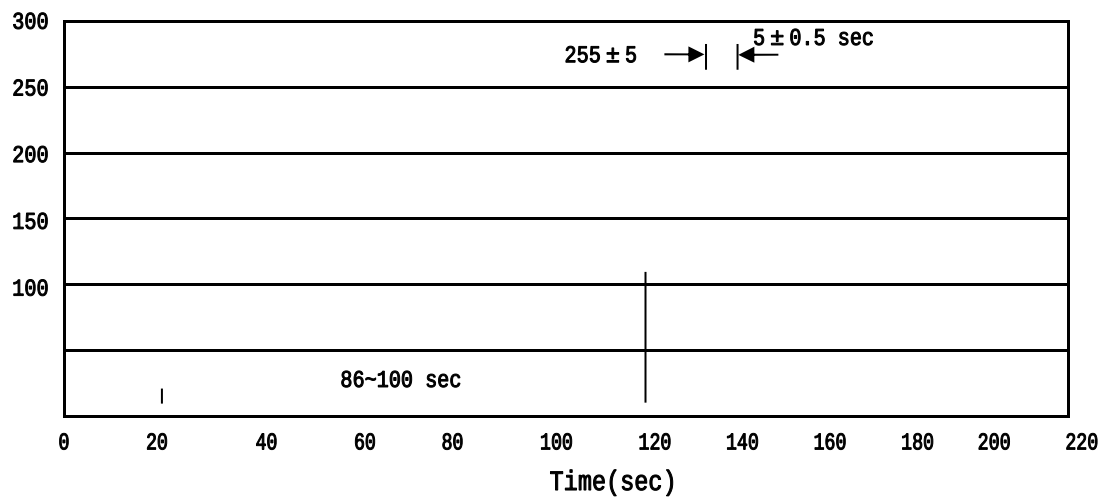
Note:

BR: Company Code

7805F: Product Type

****: 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)		
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

/ Notices