

描述 / Descriptions

TO-220 塑封封装电压调整器。Voltage Regulator in a TO-220 Plastic Package.

特征 / Features

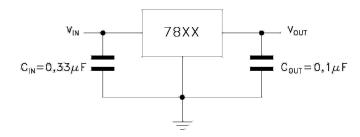
- 三端稳压调整器,输出电流高达 1.5A,内设过热保护和短路限制。
- 3-Terminal regulators ,output current up to 1.5A, internal thermal overload protection and short-circuit limiting.

用途 / Applications

电压调整器。

Voltage Regulator.

内部等效电路/应用电路 / Equivalent Circuit or Application Circuit



引脚排列 / Pinning



PIN1: IN

PIN 2 : GND

PIN 3: OUT

印章代码 / Marking

见印章说明。See Marking Instructions



极限参数 / Absolute Maximum Ratings(Ta=25°C)

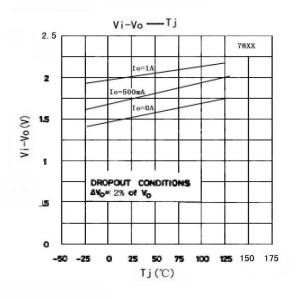
参数	符号 Symbol	数值	单位 Linit
Parameter	Symbol	Rating	Unit
Input voltage	V _I	35	V
Thermal Resistance Junction-ambient	$R_{\theta JA}$	62.5	°C/W
Thermal Resistance Junction-case	$R_{ heta JC}$	5.0	°C/W
Operating Junction Temperature Range	T _{OPR}	0∼125	$^{\circ}$
Storage temperature range	T _{stg}	-65∼150	${\mathbb C}$

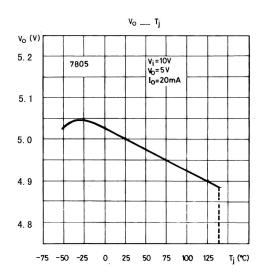
电性能参数 / Electrical Characteristics(Ta=25°C)

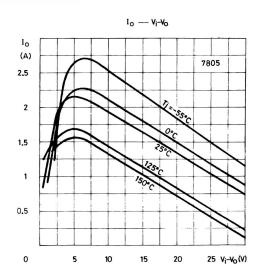
参数	符号	测试条件		最小值	典型值	最大值	单位
Parameter	Symbol	Test Conditions		Min	Тур	Max	Unit
	Vo	T _j =25℃		4.8	5.0	5.2	٧
Output voltage		V _i =7V-20V Po≤15W	lo=5mA-1A	4.75	5.0	5.25	V
	△Vo	T _j =25℃	lo=5mA-1.5A			100	mV
Load Regulation		T _j =25℃ lo=250mA-750mA				50	mV
Line regulation	△Vo	T _j =25℃	Vi=7V-25V		3.0	100	mV
		T _j =25℃	Vi=8V-12V		1.0	50	mV
Quiescent Current	Iq	T _j =25℃				8.0	mA
0 '	∆lq	V _i =7V-25V				0.8	mA
Quiescent Current Change		lo=5mA-1A				0.5	mA
Output Voltage Drift	△Vo/△T	Io=5mA			-1.1		mV/℃
Output Noise Voltage	eN	B=10Hz-100 T _j =25℃	KHz			40	μV/Vo
Supply Voltage Rejection	SVR	V _i =8V-18V	f=120Hz	62			dB
Dropout Voltage	Vd	Io=1A	T _j =25℃		2.0		V
Output Resistance	Ro	f=1KHz			17		mΩ
Short Circuit Current	Isc	V _i =35V	T _j =25℃		0.75		Α
Short Circuit Peak Current	Iscp	T _j =25℃			2.2		Α

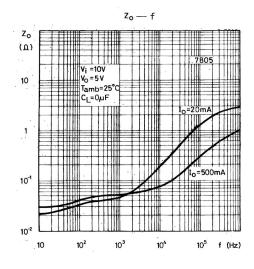


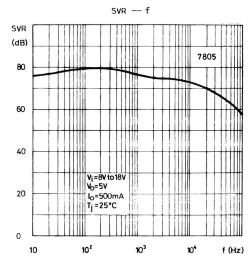
电参数曲线图 / Electrical Characteristic Curve

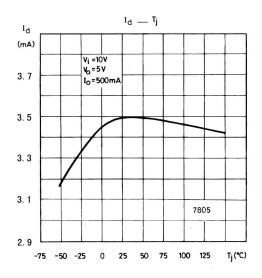






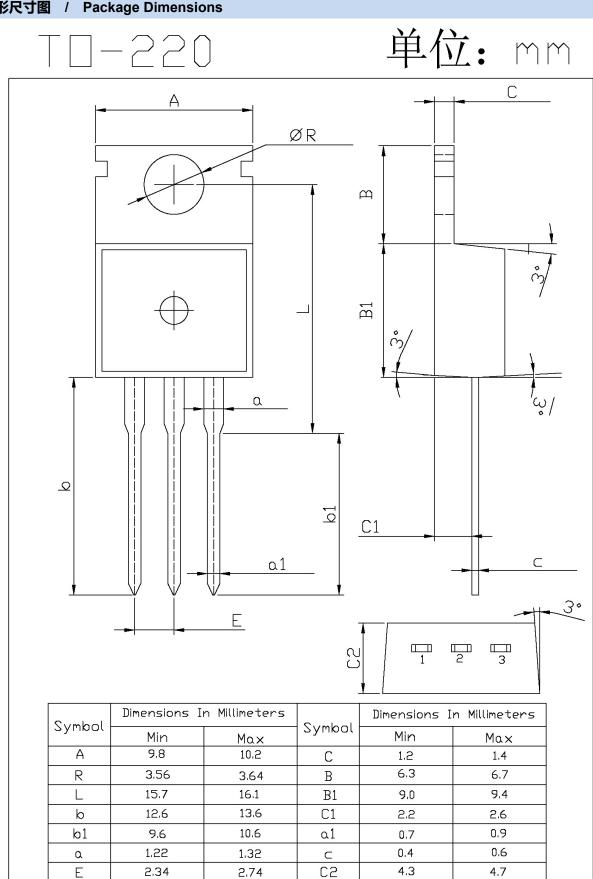








外形尺寸图 / Package Dimensions

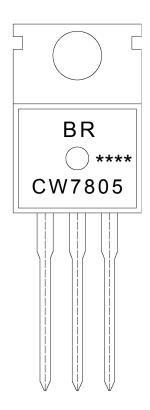


7805

Rev.E Mar.-2016



印章说明 / Marking Instructions



说明:

BR: 为公司代码

CW7805: 为型号代码

****: 为生产批号代码,随生产批号变化。

Note:

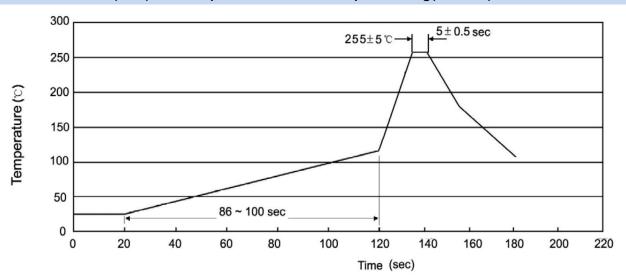
BR: Company Code.

CW7805: Product Type.

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



波峰焊温度曲线图(无铅) / Temperature Profile for Dip Soldering(Pb-Free)



说明:

- 1、预热温度 25~150℃, 时间 60~90sec;
- 2、峰值温度 255±5℃, 时间持续为 5±0.5sec;
- 3、焊接制程冷却速度为 2~10℃/sec.

Note:

- 1.Preheating:25~150°C, Time:60~90sec.
- 2.Peak Temp.:255±5°C, Duration:5±0.5sec.
- 3. Cooling Speed: 2~10°C/sec.

耐焊接热试验条件 / Resistance to Soldering Heat Test Conditions

温度: 270±5℃ 时间: 10±1 sec. Temp:270±5℃ Time:10±1 sec

包装规格 / Packaging SPEC.

散件包装 / BULK

Package Type	Units 包装数量					Dimension 包装尺寸 (unit: mm3)			
封装形式	Units/Bag 只/袋	Bags/Inner Box 袋/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Bag 袋	Inner Box 盒	Outer Box 箱	
TO-220/F	200	10	2.000	5	10.000	135×190	237×172×102	560×245×195	

套管包装 / TUBE

Package Typ	e	Units 包装数量					包装尺寸 (ur	nit: mm3)
封装形式	Units/Tube 只/套管	Tubes/Inner Box 套管/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Tube 套管	Inner Box 盒	Outer Box 箱
TO-220/F	50	20	1,000	5	5,000	532×31.4×5.5	555×164×50	575×290×180

使用说明 / Notices