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 Applica1487llent CircuEET

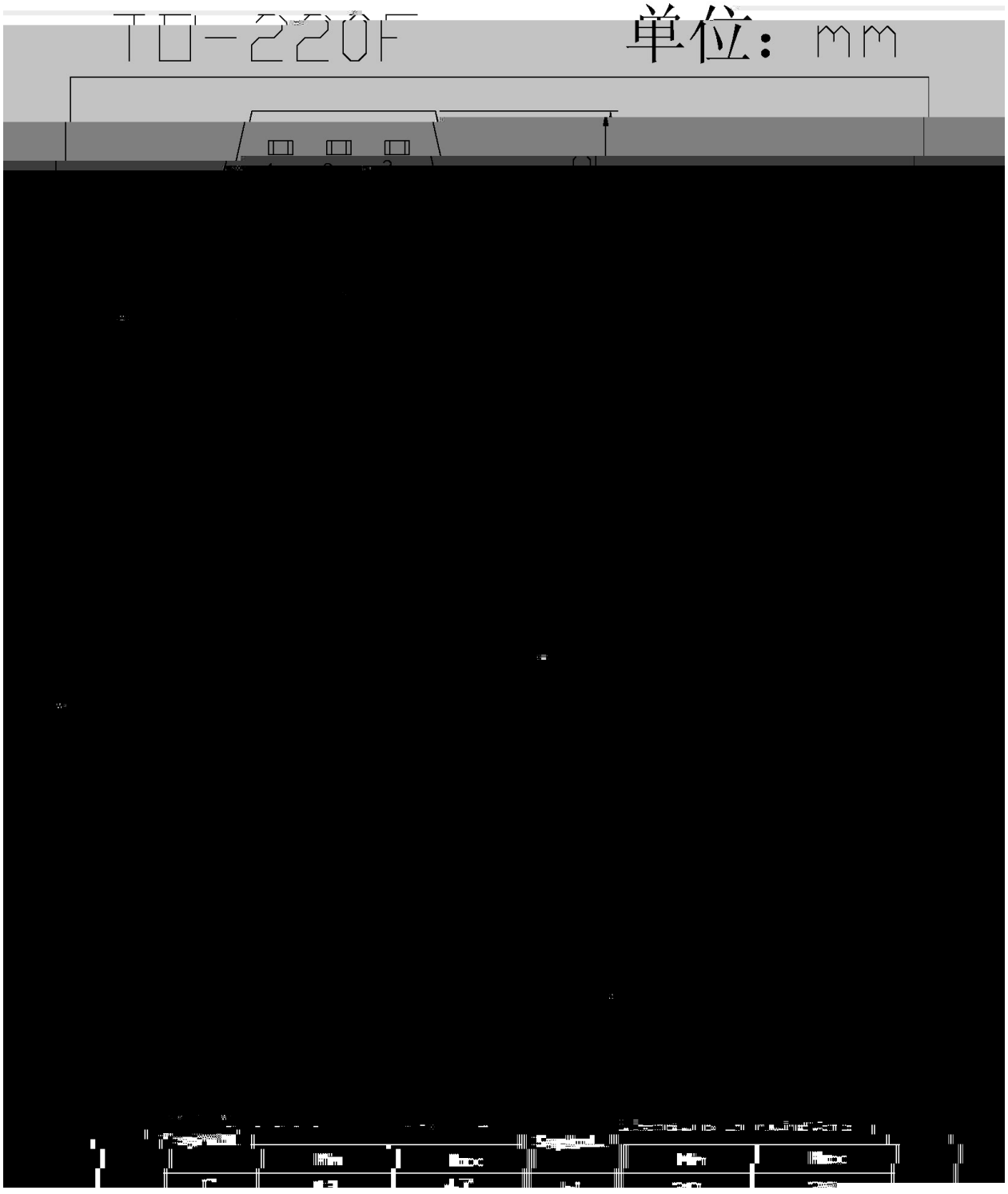
绝对最大额定值 / Absolute Maximum Ratings(Ta=25℃)

Parameter	Symbol	Rating	Unit
Input voltage	V_I	35	V
Thernal Resistance Junction-Ambient	R_{JA}	60	/W
Thernal Resistance Junction-Case	R_{JC}	5.0	/W
Operating Junction Temperature Range	T_{OPR}	0 125	
Storage temperature range	T_{stg}	-65 150	

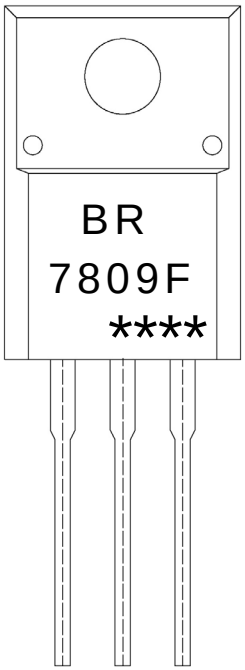
电气特性 / Electrical Characteristics(Ta=25℃, Vi=15V,Io=500mA, unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Output voltage	V_O	T_j=25	8.65	9.0	9.35	V
		V_i=11.5V-26V Io=5mA-1A Po ”15W	8.55	9.0	9.45	V
Load Regulation	ΔVo	T_j=25 Io=5.0mA-1.5A			180	mV
		T_j=25 Io=250mA-750mA			90	mV
Line regulation	ΔVo	T_j=25 V_i=11.5V-26V			180	mV
		T_j=25 V_i=12V-18V			90	mV
Quiescent Current	Iq	T_j=25			8.0	mA
Quiescent Current Change	ΔIq	V_i=11.5V-26V			1.0	mA
		Io=5.0mA-1.0A			0.5	mA
Output Voltage Drift	ΔVo/ΔT	Io=5.0mA		-1.0		mV/
Output Noise Voltage	eN	B=10Hz-100KHz T_j=25		70		V/Vo
Supply Voltage Rejection	SVR	V_i=12V-23V f=120Hz	55			dB
Dropout Voltage	Vd	Io=1A T_j=25		2.0		V
Output Resistance	Ro	f=1KHz		17		m
Short Circuit Current	Isc	V_i=35V T_j=25		0.40		A
Short Circuit Peak Current	Iscp	T_j=25		2.2		A

/ Package Dimensions



M / Marking Instructions



Note:

BR:	Company Code.
7809F:	Product Type.
****:	Lot No. Code, code change with Lot No.