

TO-220

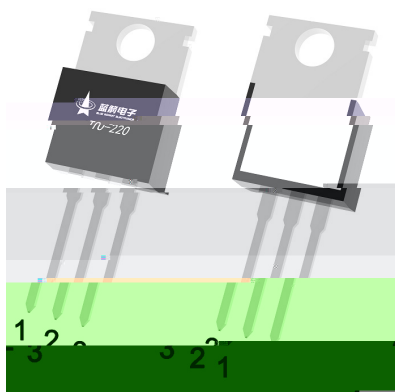
Voltage Regulator in a TO-220 Plastic Package.

1.5A,

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

Voltage Regulator.

/ / Equivalent Circuit or Application Circuit



PIN1 GND PIN 2 IN PIN 3 OUT

/ Marking


/ Absolute Maximum Ratings(Ta=25)

Parameter	N Symbol	Rating	Unit
Input Voltage Difference	V_I	-35	V
Junction-to-Ambient	R_{JA}	62.5	/W
Junction-to-Case	R_{JC}	8.9	/W
Operating Temperature Range	T_{OPR}	-40 125	
Storage temperature range	T_{stg}	-65 150	

/ Electrical Characteristics(Ta=25)

Parameter	N 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

7905

Rev.G Jun.-2024



蓝箭电子
BLUE ROCKET ELECTRONICS

DATA SHEET

/ Package Dimensions



