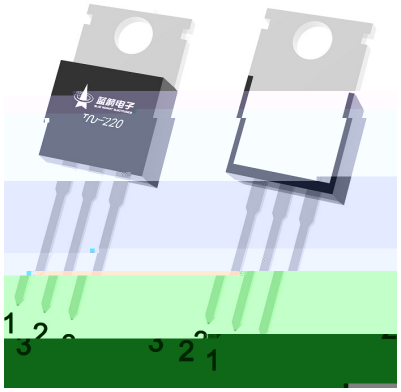
TO-220 Voltage Regulator in a TO-220 Plastic Package.

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

/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Line regulation	V_O	T_j=25	-4.8	-5.0	-5.2	V
		Vi=8 to 20V, Io=-5mA to -1A,Po≤15W	-4.75	-5.0	-5.25	
Load Regulation	Vo	T_j=25 Io=5mA to 1.5A			100	mV
		T_j=25 Io=250mA to 750mA			50	
Load Regulation	Vo	T_j=25 V_i=-7V to -25V			100	mV
		T_j=25 V_i=-8V to -12V			50	
Bias current	Id	T_j=25			8.0	mA
Bias current change	Id	V_i=-8V to -25V			0.8	mA
		Io=5mA to 1A			0.5	mA
Ratio of Change in VREF to Cathode Voltage	Vo/ T	Io=5mA		-0.4		mV/
RMS Noise vs. %of VOUT	eN	B=10Hz to 100KHz T_j=25		100		μV
Ripple Rejection	SVR	Vi=10V f=120Hz	54	60		dB
Dropout voltage	Vd	Io=1A T_j=25 Vo=100mV		1.4		V
Short Circuit Current Limit	Isc			2.1		A

/ Package Dimensions

