

**/ Descriptions**

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

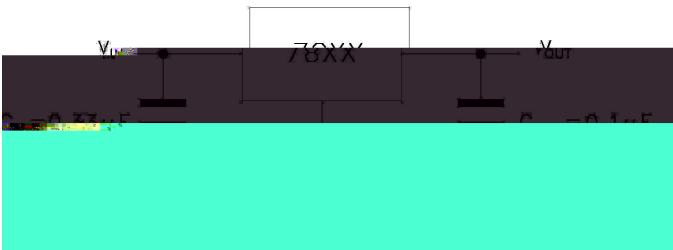
**/ Features**

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

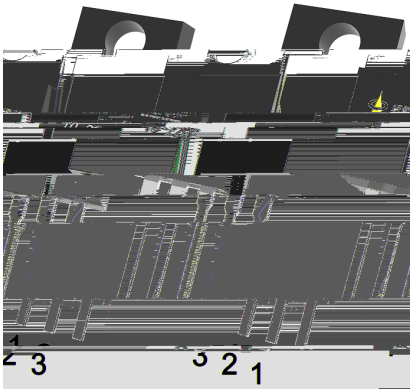
**/ Applications**

Voltage Regulator.

**/ / Equivalent Circuit or Application Circuit**



**/ Pinning**



PIN1 IN      PIN 2 GND      PIN 3 OUT

**/ Marking**

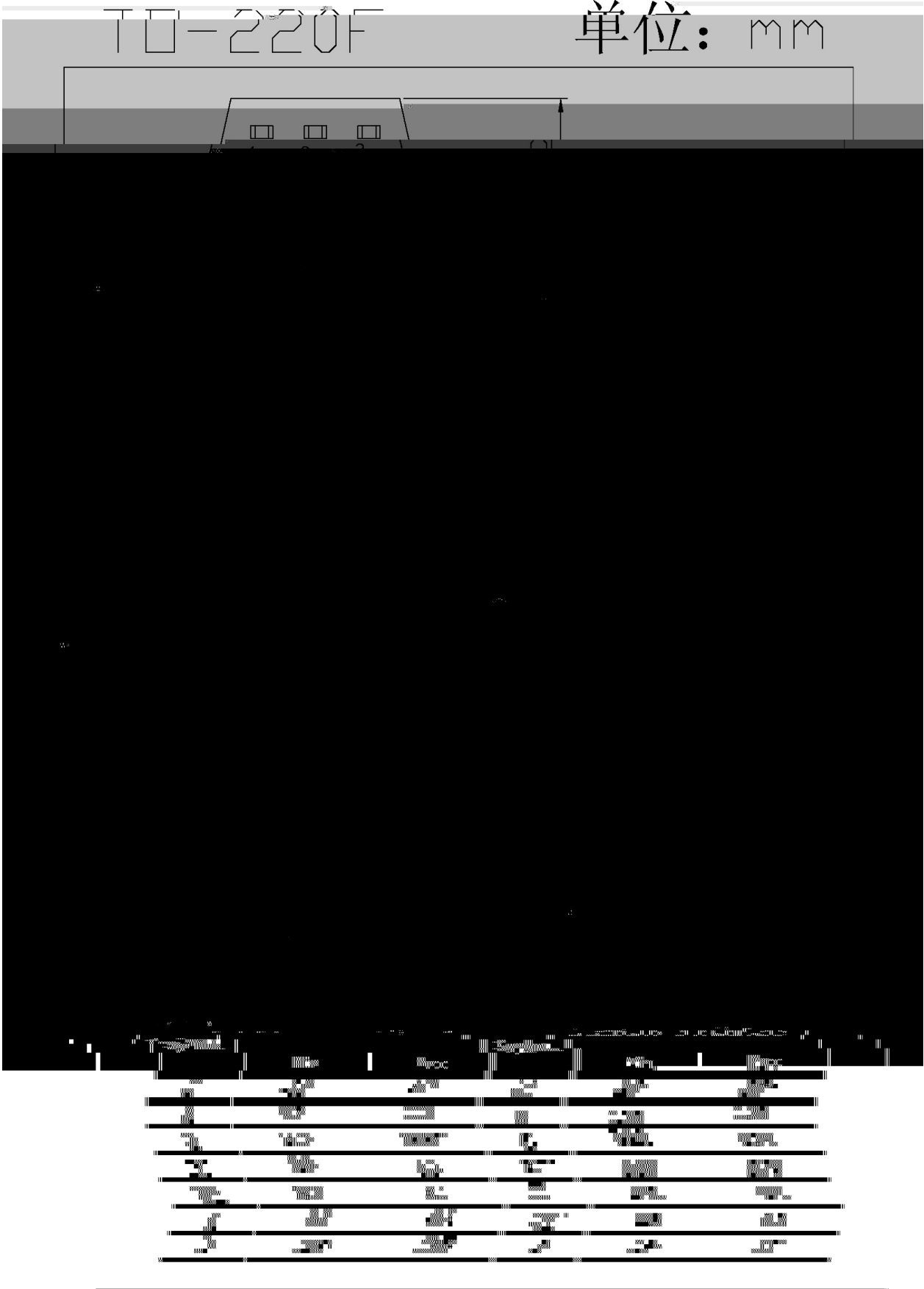
See Marking Instructions.

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	

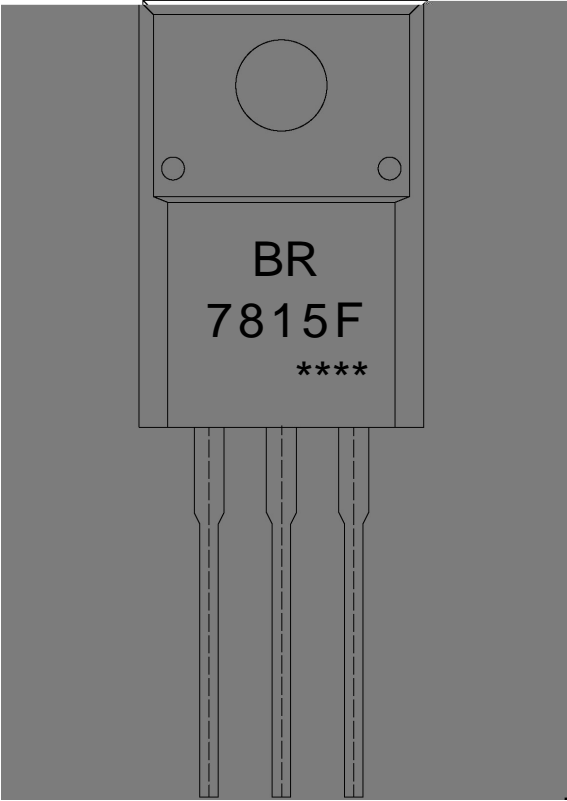
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Output voltage	$V_o$	$T_j=25$	14.4	15	15.6	V
		$V_i=17.5V-30V$ $I_o=5.0mA-1.0A$ PD 15W	14.25	15	15.75	V
Load Regulation	$V_o$	$T_j=25$ $I_o=5.0mA-1.5A$			300	mV
		$T_j=25$ $I_o=250mA-750mA$			150	mV
Line regulation	$V_o$	$T_j=25$ $V_i=17.5V-30V$			300	mV
		$T_j=25$ $V_i=20V-26V$			150	mV
Quiescent Current	$I_q$	$T_j=25$			8.0	mA
Quiescent Current Change	$I_q$	$V_i=17.5V-30V$			1.0	mA
		$I_o=5.0mA-1.0A$			0.5	mA
Output Voltage Drift	$V_o/T$	$I_o=5.0mA$		-1.0		mV/
Output Noise Voltage	eN	B=10Hz-100KHz $T_j=25$		90		V/ $V_o$
Supply Voltage Rejection	SVR	$V_i=18.5V-28.5V$ f=120Hz	54			dB
Dropout Voltage	$V_d$	$I_o=1A$ $T_j=25$		2.0		V
Output Resistance	$R_o$	f=1.0KHz		19		m Output Noise V

**7815F**  
Rev.H Jun.-2024

/ Package Dimensions



**/ Marking Instructions**



9| . / ( , =  
!!!!  
Note:  
BR: Company Code  
7815F: Product Type  
\*\*\*\*: Lot No. Code, code change with Lot No

