

Rev.B Jun.-2024

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

1.0A,
3-Terminal regulators ,output current up to 1.0A, internal thermal overload protection and short-circuit limiting.

Voltage Regulator.

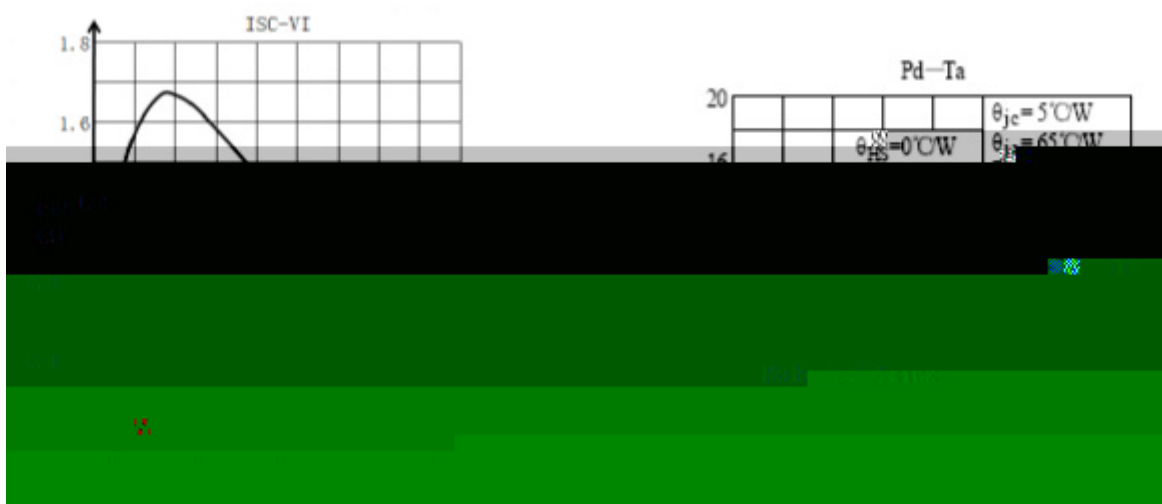
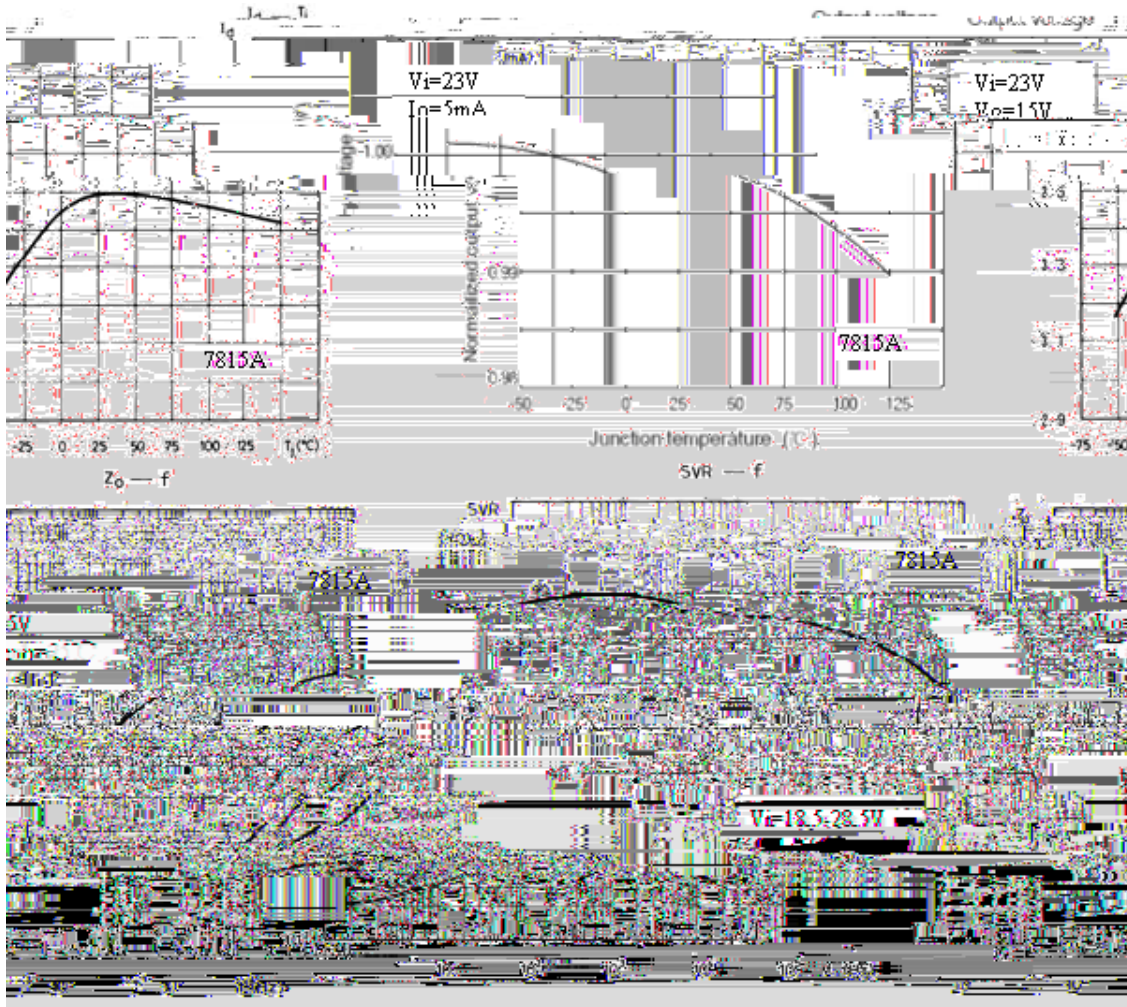
	Symbol	Rating	Unit	
Input voltage	V_I	17.5~35	V	
Power Dissipation	P_D	Internally Limited	W	
Thermal Resistance Junction-ambient	$R_{\theta JA}$	65	/W	
Thermal Resistance Junction-case	$R_{\theta JC}$	5.0	/W	
Operating Temperature Range	T_{OPR}	-40 125		
Storage temperature range	T_{stg}	-65 150		

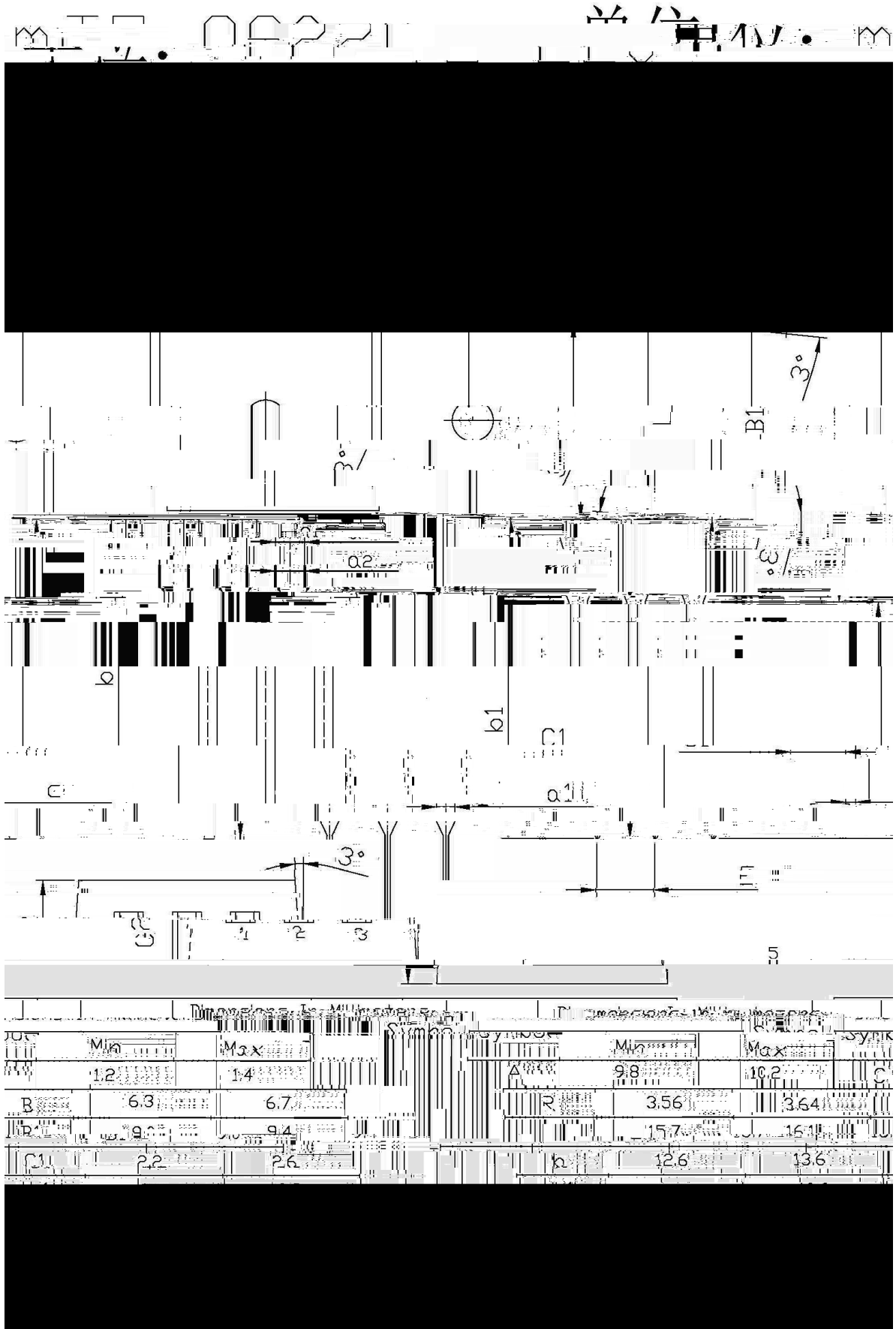
Test Conditions

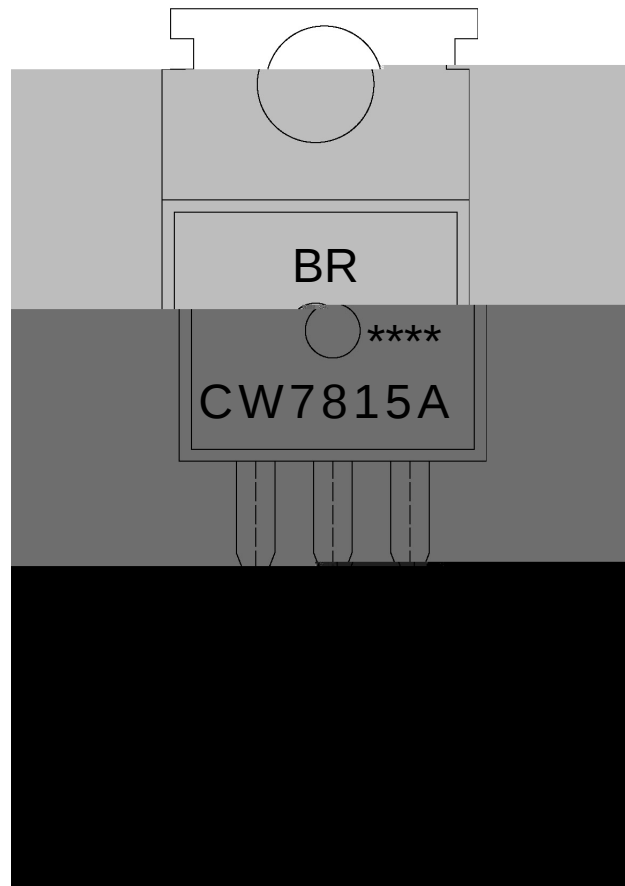
T

15.7

Symbol						
Output Voltage	V	$T_j=25$	14.4	15	15.6	V
$B=10\text{Hz}\sim 100\text{kHz}$	$I_o=5\text{mA}\sim 1.0\text{A}$	$V_i=17.5\text{V}\sim 30\text{V}$	$P_D\leq 14.25$	15		
Load Regulation	V_{Load}	$T_j=25$	$I_o=5\text{mA}\sim 1.0\text{A}$		250	mV
$I_o=1\text{A}$		$T_j=25$	$I_o=250\text{mA}\sim 750\text{mA}$		125	mV
Line Regulation	V_{Line}	$T_j=25$	$V_i=17.5\text{V}\sim 30\text{V}$			
250 mV		$T_j=25$	$V_i=20\text{V}\sim 26\text{V}$		125	mV
Quiescent Current	I_q	$j=25$			8.0	mA
Quiescent Current Change	I_q	$V_i=17.5\text{V}\sim 30\text{V}$			1.0	mA
		$I_o=5\text{mA}\sim 1.0\text{A}$			0.5	mA
Output Voltage Drift	V_o/ T	$I_o=5\text{mA}$	$T_j=0\sim 125^\circ\text{C}$	-1.0		
Output Noise Voltage	eN	$j=25$		10		$\mu\text{V}/V_o$
Supply Voltage Rejection	SVR	$V_i=18.5\text{V}\sim 28.5\text{V}$	54		dB	
Dropout Voltage	V_d	$j=25$			2.0	V
Output Resistance	R_o	$f=1\text{KHz}$			19	m







BR

CW7815A

Note:

BR: Company Code

CW7815A: Product Type Code

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

PCB