



Micro Commercial Components



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20736 Marilla Street Chatsworth
CA 91311

Phone: (818) 701-4933

Fax: (818) 701-4939

MC7915CT

Three-Terminal Positive Voltage Regulators

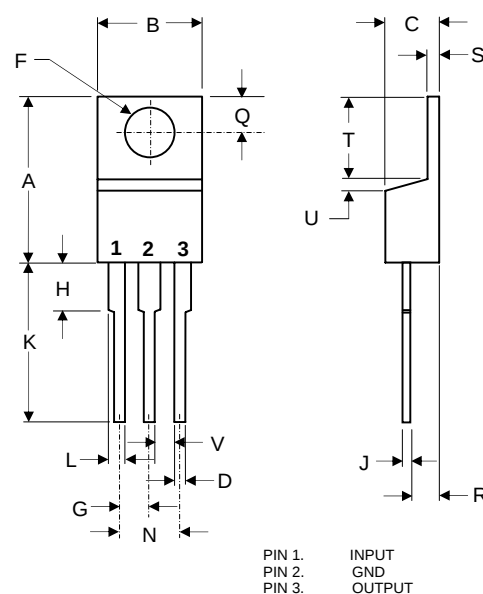
Features

- Mounting Torque: 5 in-lbs Maximum
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Output current in excess of 1.5 Ampere
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"

Maximum Ratings @ $T_A=25^{\circ}\text{C}$, Unless Otherwise Noted

Parameter	Symbol	Value	Unit
Input Voltage	V_i	-35	V
Power Dissipation	P_D	1.5($T_A=25^{\circ}\text{C}$) 15($T_C=25^{\circ}\text{C}$)	W
Thermal resistance junction-air	$R_{\theta JA}$	83.3	$^{\circ}\text{C/W}$
Thermal resistance junction-cases	$R_{\theta JC}$	8.33	$^{\circ}\text{C/W}$
Operating Junction Temperature	T_{OPR}	0---+150	$^{\circ}\text{C}$
Storage Temperature Range	T_{STG}	-55---+150	$^{\circ}\text{C}$

TO-220



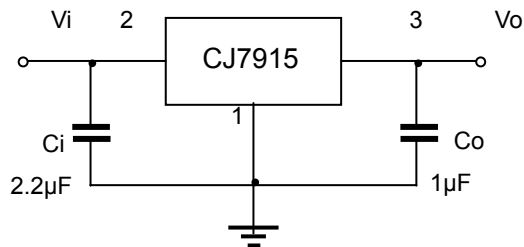
DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.560	.625	14.22	15.88	
B	.380	.420	9.65	10.67	
C	.140	.190	3.56	4.82	
D	.020	.045	0.51	1.14	
F	.139	.161	3.53	4.09	Ø
G	.190	.110	2.29	2.79	
H	---	.250	---	6.35	
J	.012	.025	0.30	0.64	
K	.500	.580	12.70	14.73	
L	.045	.060	1.14	1.52	
N	.190	.210	4.83	5.33	
Q	.100	.135	2.54	3.43	
R	.080	.115	2.04	2.92	
S	.045	.055	1.14	1.39	
T	.230	.270	5.84	6.86	
U	----	.050	----	1.27	
V	.045	----	1.15	----	

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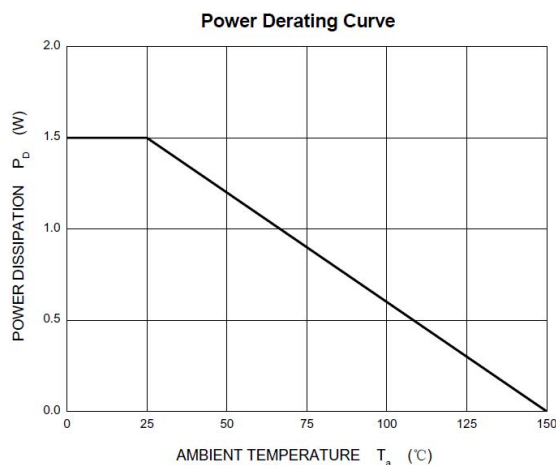
Electrical Characteristics ($V_i = -23V$, $I_o = 500mA$, $C_i = 2.2\mu F$, $C_o = 1\mu F$, unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Output voltage	V_o	$25^\circ C$	-14.4	-15	-15.6	V
		$-17.5V \leq V_i \leq -30V$, $I_o = 5mA-1A$, $P \leq 15W$ $0-125^\circ C$	-14.25	-15	-15.75	V
Load regulation	ΔV_o	$I_o = 5mA-1.5A$ $25^\circ C$		15	200	mV
		$I_o = 250mA-750mA$ $25^\circ C$		5	75	mV
Line regulation	ΔV_o	$-17.5V \leq V_i \leq -30V$ $25^\circ C$		5	100	mV
		$-20V \leq V_i \leq -26V$ $25^\circ C$		3	50	mV
Quiescent current	I_q	$25^\circ C$		2	3	mA
Quiescent current change	ΔI_q	$-17.5V \leq V_i \leq -30V$ $0-125^\circ C$			0.5	mA
	ΔI_q	$5mA \leq I_o \leq 1A$ $0-125^\circ C$			0.5	mA
Output noise voltage	V_N	$10Hz \leq f \leq 100KHz$ $25^\circ C$		375		μV
Output voltage drift	$\Delta V_o / \Delta T$	$I_o = 5mA$ $0-125^\circ C$		-1		$mV/^\circ C$
Ripple rejection	RR	$-18.5V \leq V_i \leq -28.5V$, $f = 120Hz$ $0-125^\circ C$	54	60		dB
Dropout voltage	V_d	$I_o = 1A$ $25^\circ C$		1.1		V
Peak current	I_{pk}	$25^\circ C$		2.1		A

TYPICAL APPLICATION

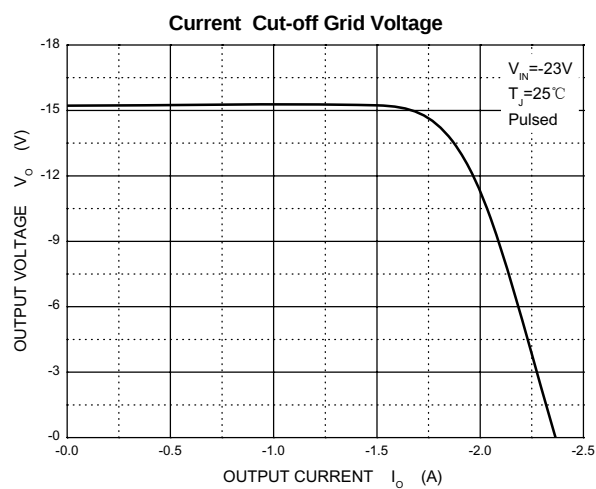
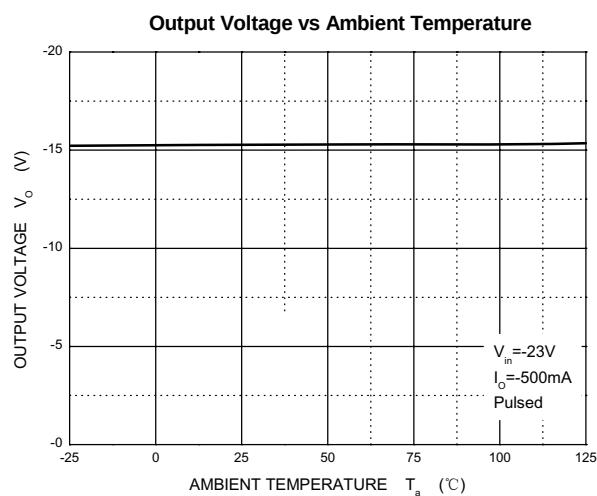
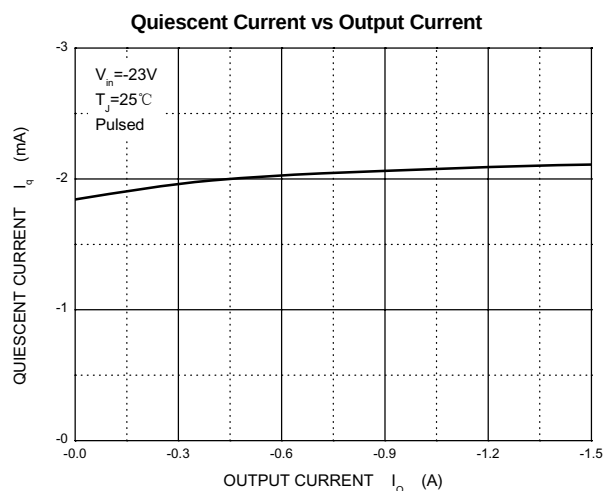
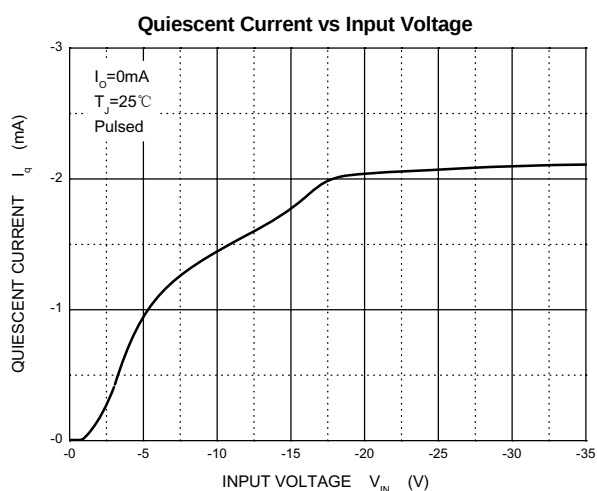
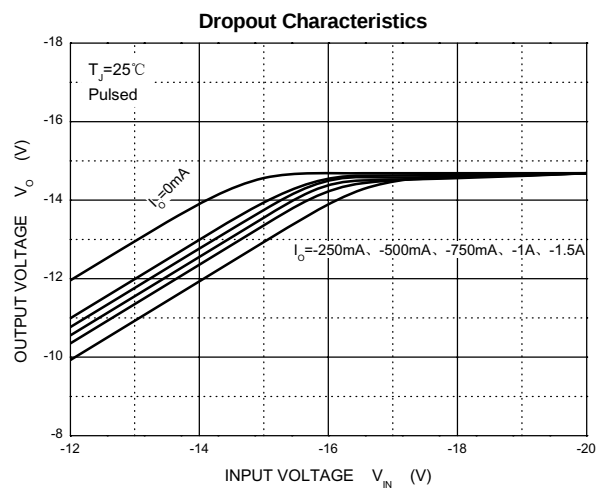
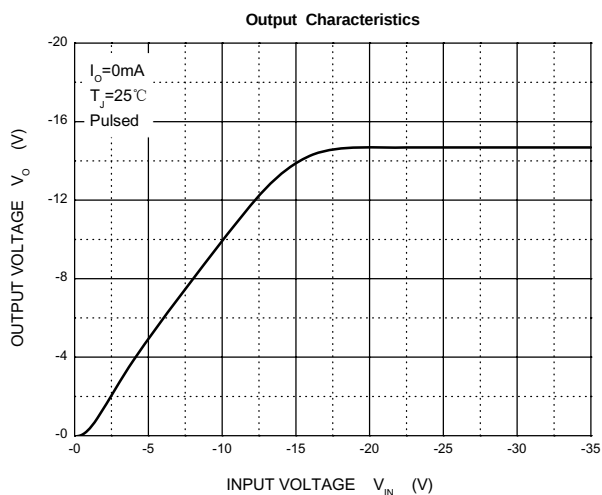


Typical Characteristics



MC7915CT

Typical Characteristics



Ordering Information :

Device	Packing
Part Number-BP	Bulk; 1Kpcs/Box

Note : Adding "-HF" suffix for halogen free, eg. Part Number-BP-HF

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