Features

- Internal Thermal Shut Down Protection
- Internal Short Circuit Current Limiting
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant(Note1) ("P" Suffix Designates RoHS Compliant. See ordering information)

Three-Terminal Positive Voltage Regulators

Maximum Ratings

Parameter	Symbol	Value	Unit
Input Voltage	V_I	-35	V
Output Current	I_o	1.0	A
Operating Junction Temperature Range	T_{OPR}	0~125	℃
Storage Temperature Range	T_{STG}	-55~150	℃

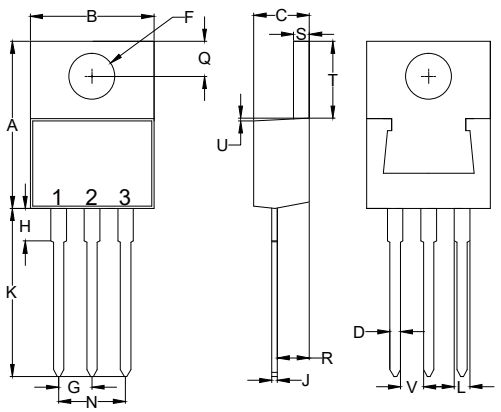
Notes:1.High Temperature Solder Exemption Applied, see EU Directive Annex 7a.

Marking Code:

MCC
79XXCT

XX:05~12

TO-220



PIN 1. GND
PIN 2. INPUT
PIN 3. OUTPUT

DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.560	0.625	14.22	15.88	
B	0.380	0.420	9.65	10.67	
C	0.140	0.190	3.56	4.82	
D	0.020	0.045	0.51	1.14	
F	0.139	0.161	3.53	4.09	Φ
G	0.090	0.110	2.29	2.79	
H	-----	0.250	-----	6.35	
J	0.012	0.025	0.30	0.64	
K	0.500	0.580	12.70	14.73	
L	0.045	0.060	1.14	1.52	
N	0.190	0.210	4.83	5.33	
Q	0.100	0.135	2.54	3.43	
R	0.080	0.115	2.04	2.92	
S	0.045	0.055	1.14	1.39	
T	0.230	0.270	5.84	6.86	
U	-----	0.050	-----	1.27	
V	0.045	-----	1.15	-----	

Electrical Characteristics

MC7905CT

(V_i=10V, I_o=500mA, 0°C＜T_j＜125 °C,C_i=2.0uF, C_o=0.1uF,Unless Otherwise Specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Output Voltage	Vo	T_j=25°C	-4.8	-5.0	-5.2	V
		-7V≤V_i≤-20V,5mA≤I_o≤1000mA , P_D≤15W	-4.75	-	-5.25	V
Load Regulation	△Vo	5mA≤I_o≤1500mA,T_j=25°C	-	15.0	100	mV
		250mA≤I_o≤750mA,T_j=25°C	-	5.0	50	mV
Line Regulation	△Vo	-7V≤V_1≤-25V,T_j=25°C	-	12.5	50	mV
		-8V≤V_1≤-12V,T_j=25°C	-	4.0	15	mV
Quiescent Current	Iq	T_j=25°C,I_o=0	-	1.5	2.0	mA
Quiescent Current Change	$\triangle I_q$	-7V≤V_i≤-25V,	-	-	0.5	mA
		5mA≤I_o≤1000mA	-	-	0.5	mA
Output Noise Voltage	V_N	f=120Hz	-	120	-	μV
Ripple Rejection	RR	-8V≤V_i≤-18V,f=120Hz,T_j=25°C	54	60	-	dB
Dropout Voltage	V_d	T_j=25°C,I_o=1.0A	-	1.1	-	V
Peak Output Current	I_{opeak}	T_j=25°C	-	2.1	-	A
Temperature Coefficient of Output Voltage	$\triangle Vo/\triangle T_j$	0°C≤T_j≤125°C,I_o=5.0mA	-	-0.4	-	mV/°C

Electrical Characteristics

MC7906CT

(V_i=11V, I_o=500mA, 0°C＜T_j＜125 °C,C_i=2.0uF, C_o=0.1uF,Unless Otherwise Specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Output Voltage	Vo	T_j=25°C	-5.75	-6.0	-6.25	V
		-8V≤V_i≤-21V,5mA≤I_o≤1000mA , P_D≤15W	-5.70	-	-6.30	V
Load Regulation	△Vo	5mA≤I_o≤1500mA,T_j=25°C	-	15.0	160	mV
		250mA≤I_o≤750mA,T_j=25°C	-	5.0	80	mV
Line Regulation	△Vo	-8V≤V_1≤-25V,T_j=25°C	-	12.5	160	mV
		-9V≤V_1≤-13V,T_j=25°C	-	4.0	80	mV
Quiescent Current	Iq	T_j=25°C,I_o=0	-	1.5	2.0	mA
Quiescent Current Change	$\triangle I_q$	-10.5V≤V_i≤-25V,	-	-	1.0	mA
		5mA≤I_o≤1000mA	-	-	0.5	mA
Output Noise Voltage	V_N	10Hz≤f≤100KHz,T_j=25°C	-	200	-	μV
Ripple Rejection	RR	-9V≤V_i≤-13V,f=120Hz,T_j=25°C	54	60	-	dB
Dropout Voltage	V_d	T_j=25°C,I_o=1.0A	-	1.1	-	V
Peak Output Current	I_{opeak}	T_j=25°C	-	2.1	-	A
Temperature Coefficient of Output Voltage	$\triangle Vo/\triangle T_j$	0°C≤T_j≤125°C,I_o=5.0mA	-	-0.5	-	mV/°C

Electrical Characteristics

MC7908CT

(V_i=14V, I_o=500mA, 0°C＜T_j＜125 °C,C_i=2.0uF, C_o=0.1uF,Unless Otherwise Specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Output Voltage	Vo	T_j=25°C	-7.70	-8.0	-8.30	V
		-10.5V≤V_i≤-23V,5mA≤I_o≤1000mA , P_D=15W	-7.60	-	-8.40	V
Load Regulation	△Vo	5mA≤I_o≤1500mA,T_j=25°C	-	12.0	160	mV
		250mA≤I_o≤750mA,T_j=25°C	-	4.0	80	mV
Line Regulation	△Vo	-10.5V≤V_1≤-25V,T_j=25°C	-	6.0	160	mV
		-11V≤V_1≤-17V,T_j=25°C	-	2.0	80	mV
Quiescent Current	Iq	T_j=25°C,I_o=0	-	2.2	4.5	mA
Quiescent Current Change	$\triangle I_q$	-10.5V≤V_i≤-25V,	-	-	1.0	mA
		5mA≤I_o≤1000mA	-	-	0.5	mA
Output Noise Voltage	V_N	10Hz≤f≤100KHz,T_j=25°C	-	52	-	μV
Ripple Rejection	RR	-10.5V≤V_i≤-25V,f=120Hz,T_j=25°C	56	71	-	dB
Dropout Voltage	V_d	T_j=25°C,I_o=1.0A	-	2.0	-	V
Peak Output Current	I_{opeak}	T_j=25°C	-	2.1	-	A
Temperature Coefficient of Output Voltage	$\triangle Vo/\triangle T_j$	0°C≤T_j≤125°C,I_o=5.0mA	-	-0.6	-	mV/°C

Electrical Characteristics

MC7909CT

(V_i=15V, I_o=500mA, 0°C＜T_j＜125 °C,C_i=2.0uF, C_o=0.1uF,Unless Otherwise Specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Output Voltage	Vo	T_j=25°C	-8.70	-9.0	-9.30	V
		-11.5V≤V_i≤-24V,5mA≤I_o≤1000mA , P_D≤15W	-8.60	-	-9.40	V
Load Regulation	△Vo	5mA≤I_o≤1500mA,T_j=25°C	-	12.0	180	mV
		250mA≤I_o≤750mA,T_j=25°C	-	4.0	90	mV
Line Regulation	△Vo	-11.5V≤V_1≤-26V,T_j=25°C	-	10	180	mV
		-12V≤V_1≤-18V,T_j=25°C	-	5.0	90	mV
Quiescent Current	Iq	T_j=25°C,I_o=0	-	3.0	6.0	mA
Quiescent Current Change	$\triangle I_q$	-11.5V≤V_i≤-26V,	-	-	1.0	mA
		5mA≤I_o≤1000mA	-	-	0.5	mA
Output Noise Voltage	V_N	10Hz≤f≤100KHz,T_j=25°C	-	175	-	μV
Ripple Rejection	RR	-11.5V≤V_i≤-26V,f=120Hz,T_j=25°C	54	60	-	dB
Dropout Voltage	V_d	T_j=25°C,I_o=1.0A	-	1.1	-	V
Peak Output Current	I_{opeak}	T_j=25°C	-	2.1	-	A
Temperature Coefficient of Output Voltage	$\triangle Vo/\triangle T_j$	0°C≤T_j≤125°C,I_o=5.0mA	-	-0.6	-	mV/°C

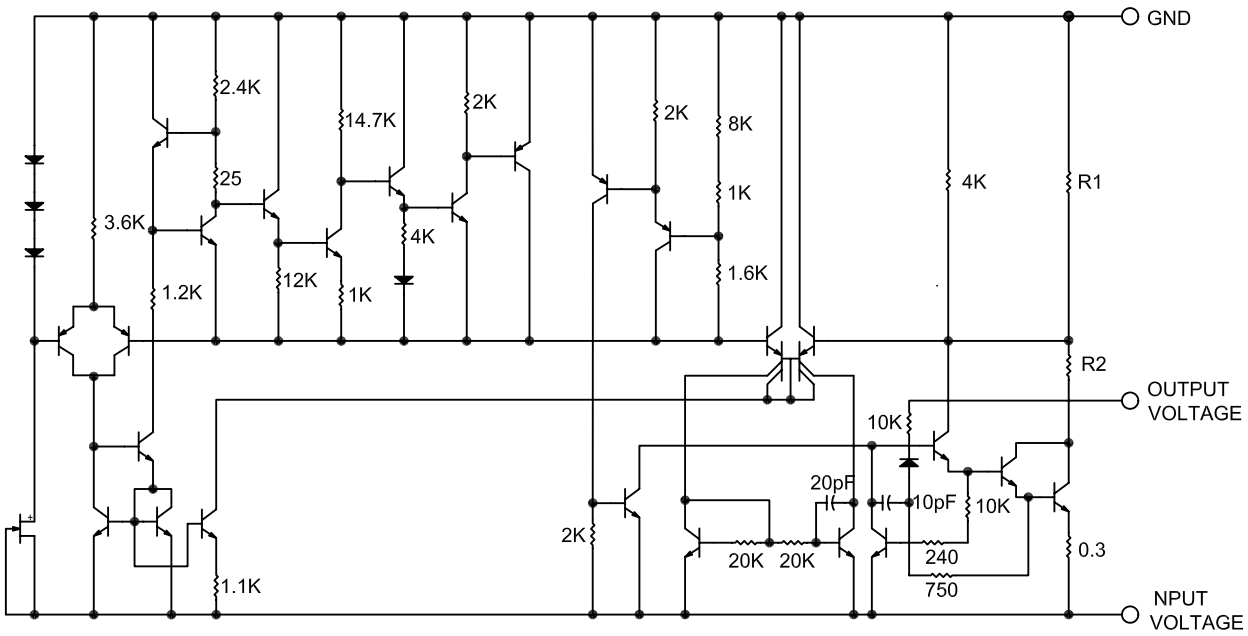
Electrical Characteristics

MC7912CT

(V_i=19V, I_o=500mA, 0°C＜T_j＜125 °C,C_i=2.0uF, C_o=0.1uF,Unless Otherwise Specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Output Voltage	Vo	T_j=25°C	-11.50	-12.0	-12.50	V
		-14.5V≤V_i≤-27V,5mA≤I_o≤1000mA , P_D≤15W	-11.40	-	-12.60	V
Load Regulation	△Vo	5mA≤I_o≤1500mA,T_j=25°C	-	15.0	200	mV
		250mA≤I_o≤750mA,T_j=25°C	-	5.0	75	mV
Line Regulation	△Vo	-14.5V≤V_1≤-30V,T_j=25°C	-	5.0	80	mV
		-16V≤V_1≤-22V,T_j=25°C	-	3.0	30	mV
Quiescent Current	Iq	T_j=25°C,I_o=0	-	2.0	3.0	mA
Quiescent Current Change	$\triangle I_q$	-14.5V≤V_i≤-30V,	-	-	0.5	mA
		5mA≤I_o≤1000mA	-	-	0.5	mA
Output Noise Voltage	V_N	10Hz≤f≤100KHz,T_j=25°C	-	300	-	μV
Ripple Rejection	RR	-14.5V≤V_i≤-30V,f=120Hz,T_j=25°C	54	60	-	dB
Dropout Voltage	V_d	T_j=25°C,I_o=1.0A	-	1.1	-	V
Peak Output Current	I_{opeak}	T_j=25°C	-	2.1	-	A
Temperature Coefficient of Output Voltage	$\triangle Vo/\triangle T_j$	0°C≤T_j≤125°C,I_o=5.0mA	-	-0.8	-	mV/°C

Representation Schematic Diagram



Ordering Information

Device	Packing
Part Number-BP	Bulk:50pcs/Tube,1Kpcs/Box,5Kpcs/Carton

Note : Adding "-HF" Suffix For Halogen Free, eg. Part Number-BP-HF

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