

Features

- 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)

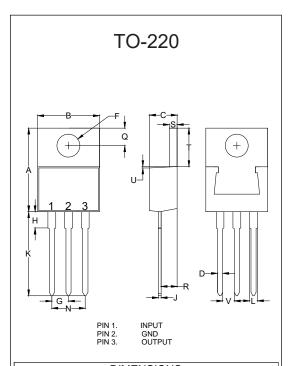
Maximum Ratings

Thermal Resistance: 83.3°C/W Junction to Air
Thermal Resistance: 8.33°C/W Junction to Cases

Parameter	Symbol	Value	Unit
Input Voltage	Vı	35	V
Output Current	Io	1.5	Α
Power Dissipation(Ta=25°C)	P _D	1.5	W
Power Dissipationn(Tc=25°C)	P _D	15	W
Operating Junction Temperature ÁÜæ)*^	T _{OPR}	0~150	°C
Storage Temperature Range	T _{STG}	-55~150	°C

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

Three-Terminal Positive Voltage Regulators



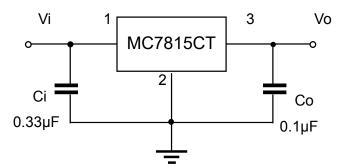
DIMENSIONS						
DIM	INCHES		MM		NOTE	
	MIN	MAX	MIN	MAX	NOTE	
Α	0.560	0.625	14.22	15.88		
В	0.380	0.420	9.65	10.67		
С	0.140	0.190	3.56	4.82		
D	0.020	0.045	0.51	1.14		
F	0.139	0.161	3.53	4.09	Ф	
G	0.090	0.110	2.29	2.79		
Н		0.250		6.35		
J	0.012	0.025	0.30	0.64		
K	0.500	0.580	12.70	14.73		
L	0.045	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		
Т	0.230	0.270	5.84	6.86		
U		0.050		1.27		
V	0.045		1.15			



Electrical Characteristics (V_i=23V, I_o=500mA, 0°C<T_j< 125 °C,C_i=0.33uF, C_o=0.1uF,Unless Otherwise Specified)

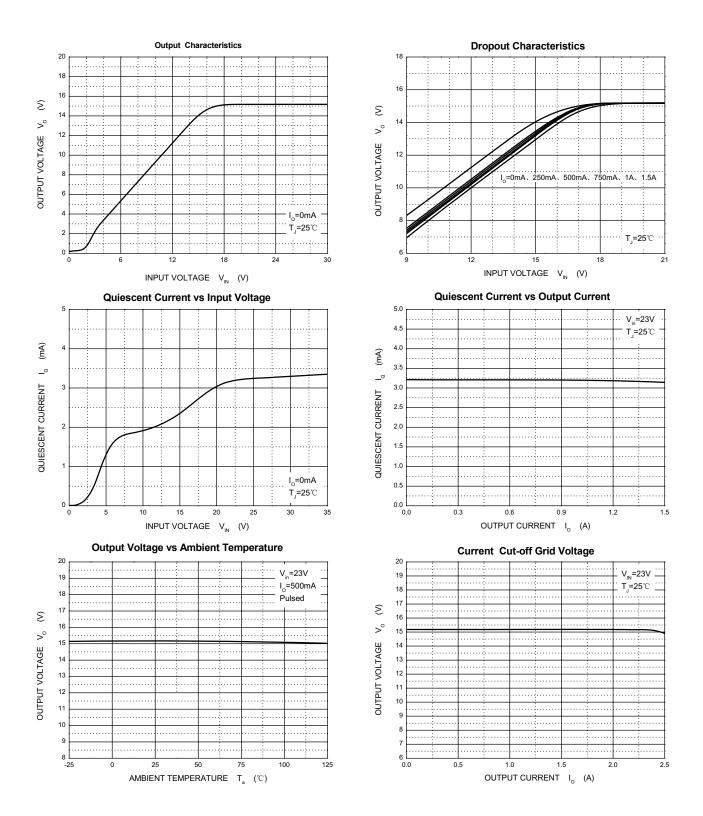
Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Output Voltage		T _j =25°C	14.4	15.0	15.6	V
	Vo	17.5V≤V _i ≤30V,5mA≤I _o ≤1000mA , P _D ≤15W ,0~125°C	14.25	15.0	15.75	V
Load Damilation	427	5mA≤I _o ≤1500mA,T _j =25°C	-	12.0	300	mV
Load Regulation	∆Vo	250mA≤I₀≤750mA,T _j =25°C	-	4.0	150	mV
Line Regulation	∆Vo	17.5V≤V₁≤30V,Tj=25°C	-	12.0	300	mV
	200	20V≤V ₁ ≤26V,T _j =25°C	-	3.0	150	mV
Quiescent Current	Iq		-	4.3	8.0	mA
Quiescent Current Change		17.5V≤V _i ≤30V,0~125°C	-	-	1.0	mA
	$\triangle I_q$	5mA≤I₀≤1000mA,0~125°C	-	-	0.5	mA
Output Noise Voltage	V _N	10Hz≤f≤100KHz,,T _j =25°C	-	90	-	μV
Ripple Rejection	RR	18.5V≤Vi≤28.5V,f=120Hz,0~125°C	54	70	-	dB
Dropout Voltage	V _d	T _j =25°C,I _o =1.0A	-	2	-	V
Output Short Circuit Current	Ro	f=1.0KHz T _j =25°C	-	19	-	mohm
Output Short Circuit Current	I _{sc}	T _j =25°C	-	230	-	mA
Peak Output Current	I _{pk}	T _j =25°C	-	2.1	-	Α
Output Voltage Drift	△Vo/△T	0°C≤T _j ≤125°C,I _o =5.0mA	-	-1	-	mV/°C

Typcial Application



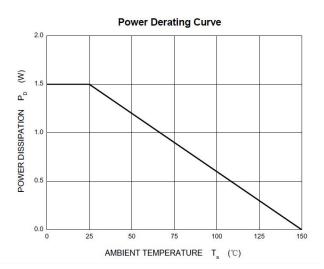


Curve Characteristics





Curve Characteristics





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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