Marking Code	

Absolute Maximum Ratings (Ta=25℃)

Parameter	Symbol	Value	Unit
Input Voltage	V_I	30	V
Power Dissipation 1	P_D	800	mW
Operating Temperature	T_J	- 20 to + 120	
Storage Temperature Range	T_{STG}	- 55 to + 150	

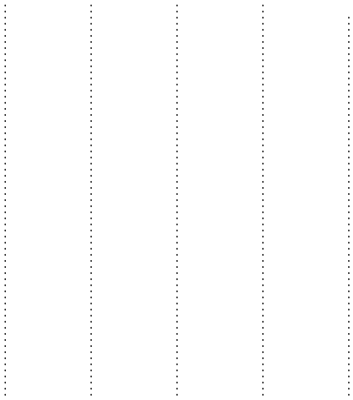
(1) 15 mm X 25 mm X 0.7 mm alumina ceramic board, Ta ≤ 25

Electrical Characteristics (Ta=25°C)

(Unless otherwise specified, 0 ≤ T_J ≤ 125 , V_I = 14 V, I_O = 40 mA, C_I = 0.33 µF, C_O = 0.1 µF)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Output Voltage	V_O	T_j = 25 ℃	7.7	8	8.3	V
		10.5 V ≤ V_I ≤ 23 V, 1 mA ≤ I_O ≤ 40 mA	7.6	-	8.4	V
		V_I = 14 V, 1 mA ≤ I_O ≤ 70 mA	7.6	-	8.4	V
Line Regulation	Reg_{line}	10.5 V ≤ V_I ≤ 23 V, T_j = 25 ℃	-	-	175	mV
		11 V ≤ V_I ≤ 23 V, T_j = 25 ℃	-	-	125	
Load Regulation	Reg_{load}	1mA ≤ I_O ≤ 100 mA, T_j = 25 ℃	-	-	80	mV
		1mA ≤ I_O ≤ 40 mA, T_j = 25 ℃	-	-	40	
Quiescent Current	I_Q	T_j = 25 ℃	-	-	5.5	mA
Quiescent Current Change	ΔI_Q	12 V ≤ V_I ≤ 23 V, I_O = 40 mA	-	-	1.5	mA
		V_I = 14 V, 1 mA ≤ I_O ≤ 40 mA	-	-	0.1	
Output Noise Voltage	V_N	10 Hz ≤ f ≤ 100 KHz, T_j = 25 ℃	-	60	-	µV
Ripple Rejection	RR	f = 120 Hz, 12 V ≤ V_I ≤ 22 V, T_j = 25 ℃	39	-	-	dB
Dropout Voltage	V_{Drop}	T_j = 25 ℃	-	1.7	-	V

Typical Characteristics (continued) (V_{OUT}=8.0V,T_J=25°C, unless otherwise specified)



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