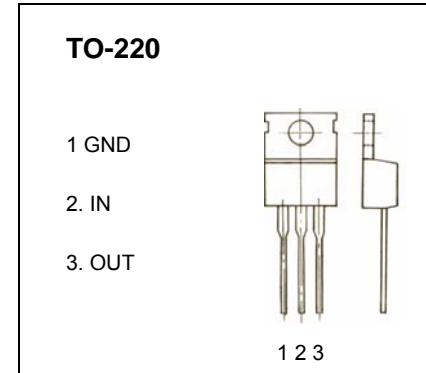
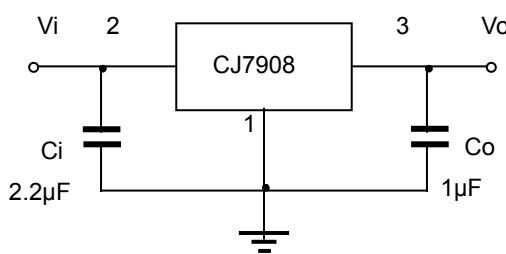


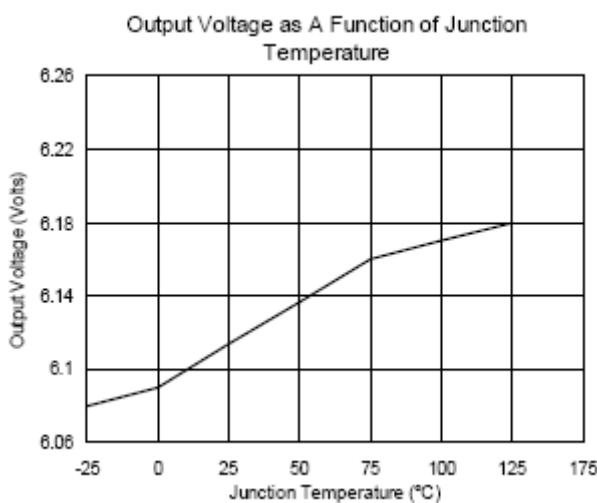
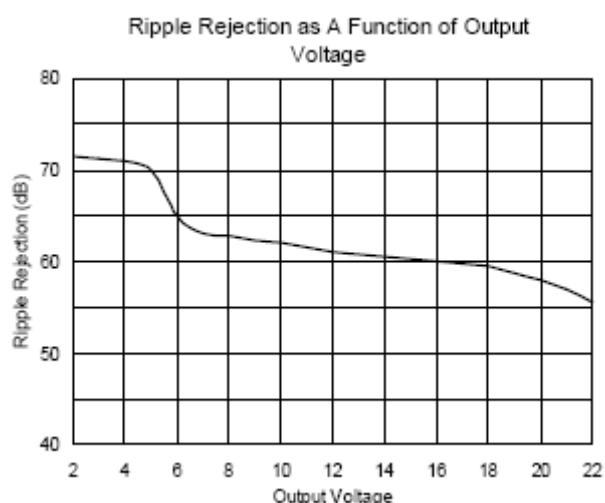
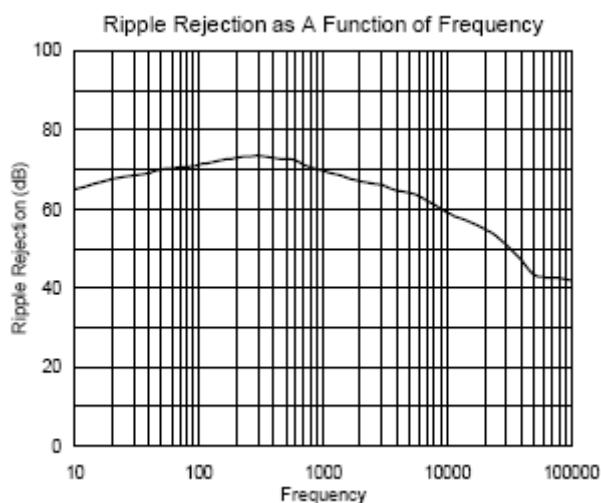
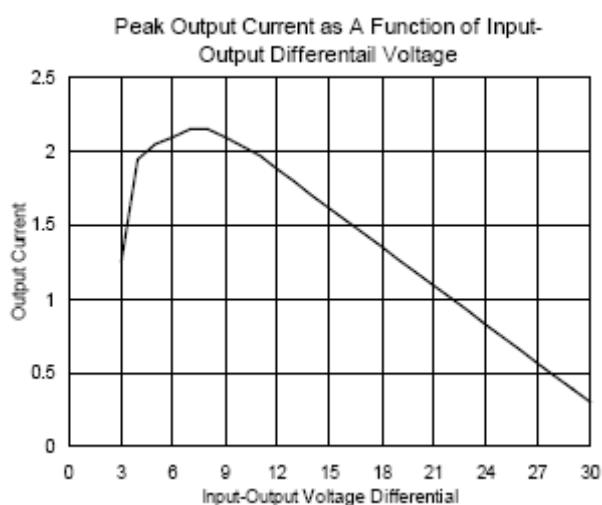
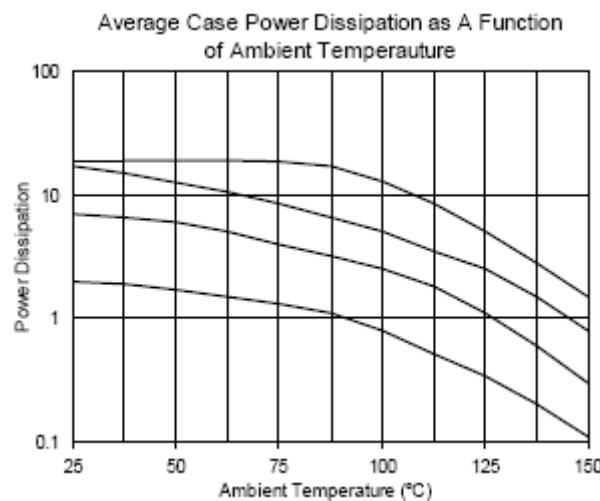
7908 Three-terminal negative voltage regulator**FEATURES****Maximum Output current I_{OM} : 1.5 A****Output voltage V_o : - 8 V****Continuous total dissipation** **P_D : 2 W ($T_a = 25^\circ C$)****15 W ($T_c = 25^\circ C$)****ABSOLUTE MAXIMUM RATINGS(Operating temperature range applies unless otherwise specified)**

Parameter	Symbol	Value	Unit
Input Voltage	V_i	-35	V
Thermal resistance junction-air	$R_{\theta JA}$	65	°C/W
Thermal resistance junction-cases	$R_{\theta JC}$	5	°C/W
Operating Junction Temperature Range	T_{OPR}	0-125	°C
Storage Temperature Range	T_{STG}	-65-150	°C

ELECTRICAL CHARACTERISTICS ($V_i=-14V, I_o=500mA, C_i=2.2\mu F, C_o=1\mu F$, unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Output voltage	V_o	25°C	-7.7	-8	-8.3	V
		-10.5V≤ V_i ≤-23V, $I_o=5mA-1A$, $P \leq 15W$	0-125°C	-7.6	-8	-8.4
Load Regulation	ΔV_o	$I_o=5mA-1.5A$	25°C	15	160	mV
		$I_o=250mA-750mA$	25°C	5	80	mV
Line regulation	ΔV_o	-10.5V≤ V_i ≤-25V	25°C	12.5	160	mV
		-11V≤ V_i ≤-17V	25°C	4	80	mV
Quiescent Current	I_q		25°C	1.5	2	mA
Quiescent Current Change	ΔI_q	-10.5V≤ V_i ≤-25V	0-125°C		1	mA
	ΔI_q	5mA≤ I_o ≤1A	0-125°C		0.5	mA
Output Noise Voltage	V_N	10Hz≤f≤100KHz	25°C	200		μV
Output voltage drift	$\Delta V_o/\Delta T$	$I_o=5mA$	0-125°C	-0.6		mV/°C
Ripple Rejection	RR	-11.5V≤ V_i ≤-21.5V, f=120Hz	0-125°C	54	60	dB
Dropout Voltage	V_d	$I_o=1A$	25°C	1.1		V
Peak Current	I_{pk}		25°C	2.1		A

TYPICAL APPLICATION

**IMPORTANT NOTICE – PLEASE READ CAREFULLY**

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