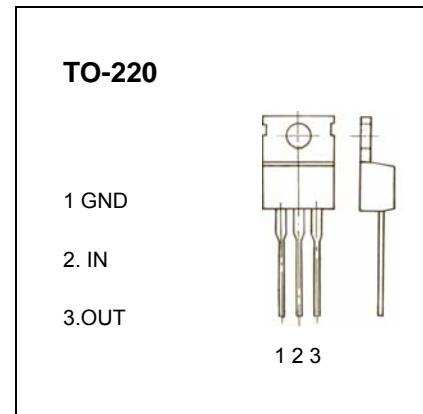
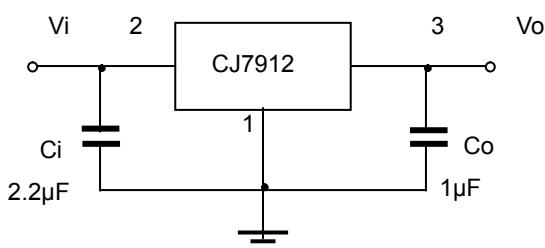


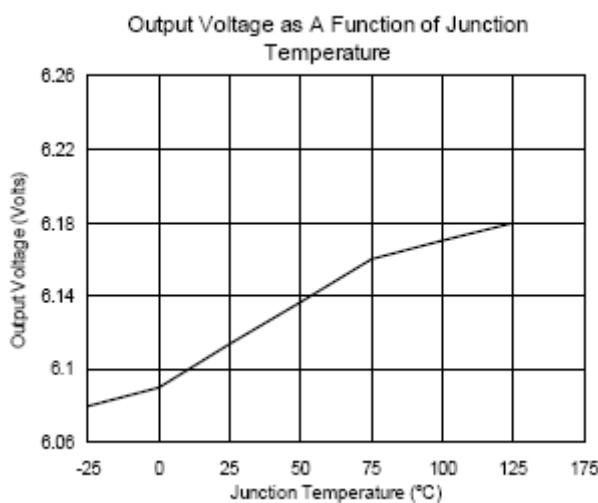
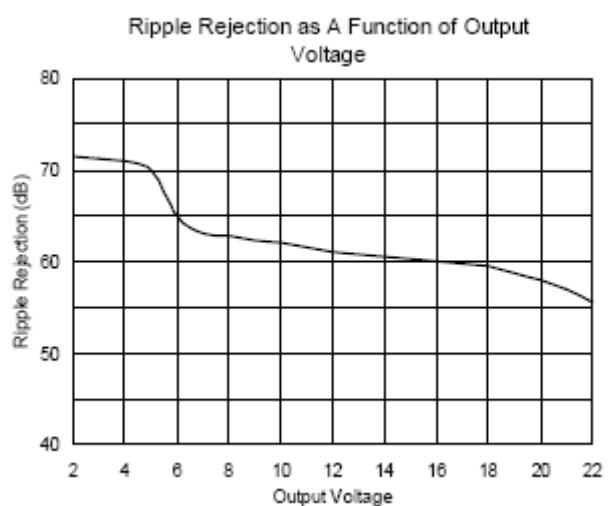
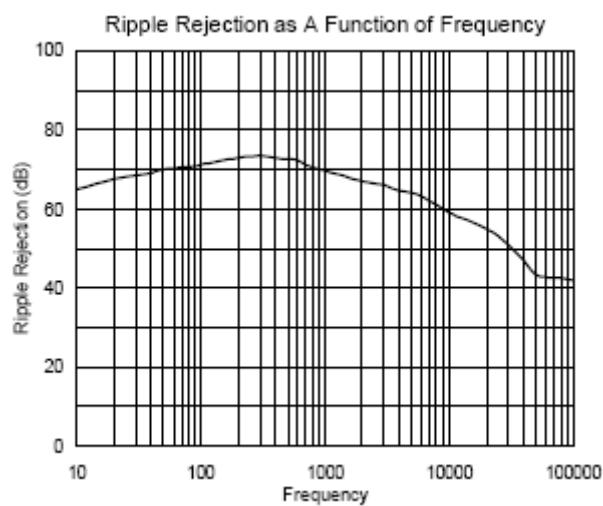
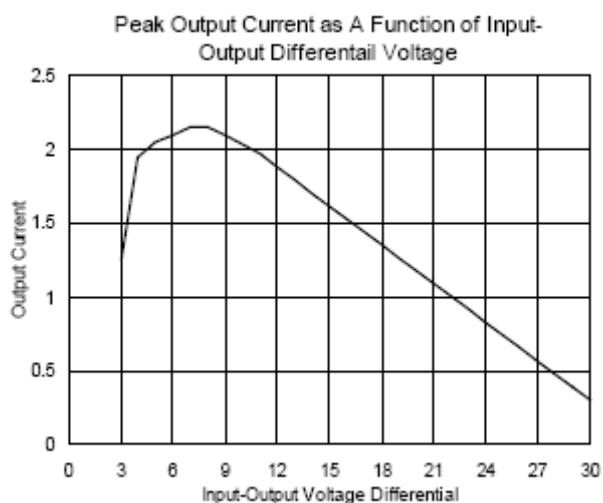
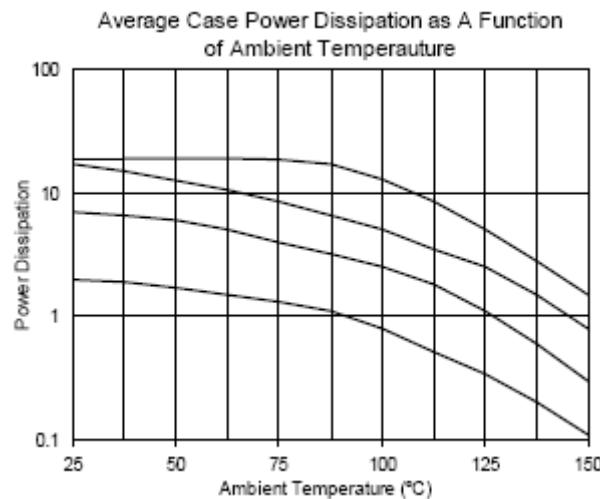
7912 Three-terminal negative voltage regulator**FEATURES****Maximum Output current I_{OM} : 1.5 A****Output voltage V_o : -12 V****Continuous total dissipation** P_D : 2 W ($T_a = 25^\circ C$)15 W ($T_c = 25^\circ C$)**ABSOLUTE MAXIMUM RATINGS** (Operating temperature range applies unless otherwise specified)

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 ($V_i = -19V$, $I_o = 500mA$, $C_i = 2.2\mu F$, $C_o = 1\mu F$, unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT	
Output voltage	V_o	25°C	-11.5	-12	-12.5	V	
		-14.5V ≤ V_i ≤ -27V, $I_o = 5mA-1A$ $P \leq 15W$	0-125°C	-11.4	-12	-12.6	V
Load Regulation	ΔV_o	$I_o = 5mA-1.5A$	25°C		15	200	mV
		$I_o = 250mA-750mA$	25°C		5	75	mV
Line regulation	ΔV_o	-14.5V ≤ V_i ≤ -30V	25°C		5	80	mV
		-16V ≤ V_i ≤ -22V	25°C		3	30	mV
Quiescent Current	I_q		25°C		2	3	mA
Quiescent Current Change	ΔI_q	-14.5V ≤ V_i ≤ -30V	0-125°C			0.5	mA
	ΔI_q	5mA ≤ I_o ≤ 1A	0-125°C			0.5	mA
Output Noise Voltage	V_N	10Hz ≤ f ≤ 100KHz	25°C		300		μV
Output voltage drift	$\Delta V_o / \Delta T$	$I_o = 5mA$	0-125°C		-0.8		mV/°C
Ripple Rejection	RR	-15V ≤ V_i ≤ -25V, 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



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