

■ Electrical Characteristics

Unless otherwise specified, condition shall be $V_{IN}=1.8V, V_B=3.3V, V_O=1.2V(R_1=1k\Omega), I_O=0.5A, T_a=25^\circ C$

Parameter	Symbol	Conditions	MIN.	TYP.	MAX.	Unit
Input voltage	V_{IN}	$0.8V \leq V_O \leq 1.2V$	1.7	-	5.5	V
		$1.2V < V_O \leq 3.5V$	$V_O+0.5$	-	5.5	V
Bias supply voltage	V_B	-	2.35	-	7.0	V
Output voltage	V_O	-	0.8	-	3.5	V
Load regulation	Reg_L	$I_O=5mA$ to 1A	-	0.2	0.5	%
Line regulation	Reg_l	$V_{IN}=1.7V$ to 5.5V, $V_B=2.35$ to 7V, $I_O=5mA$	-	0.3	0.7	%
Reference voltage	V_{ref}	-	0.57	0.6	0.63	V
Temperature coefficient of reference voltage	$T_C V_{ref}$	$T_j=0$ to $+125^\circ C, I_O=5mA$	-	± 0.5	-	%
Ripple rejection	RR1	Refer to Fig.2	-	65	-	dB
	RR2	Refer to Fig.3	-	53	-	dB
Bias power supply input current	I_B	$I_O=0A$	-	1.5	2	mA

Fig.1 Test Circuit

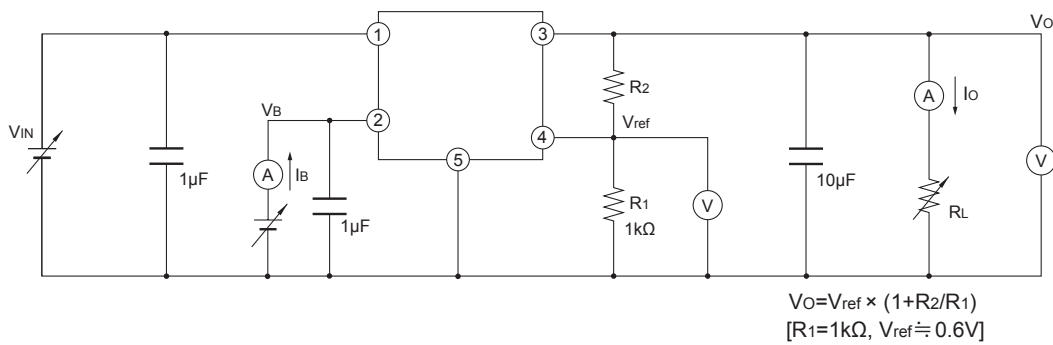


Fig.2 Test Circuit for Ripple Rejection (1)

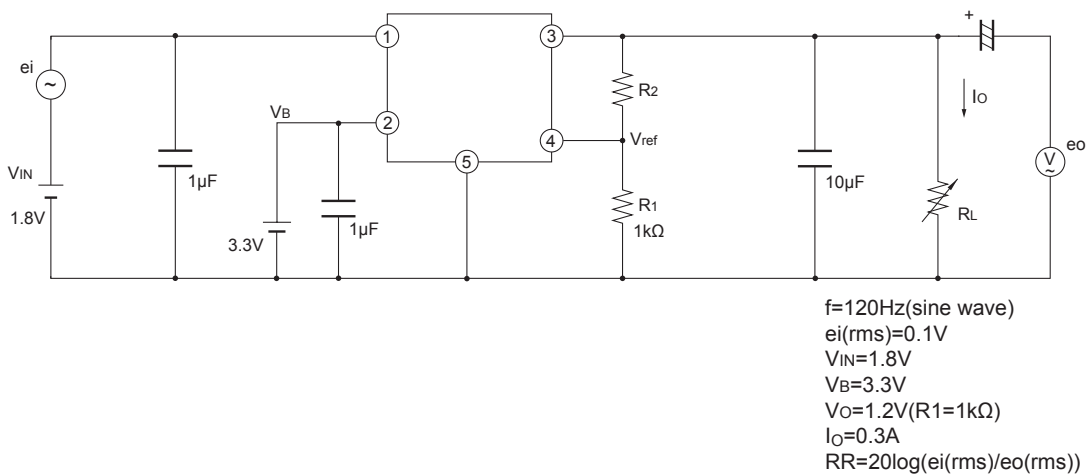


Fig.3 Test Circuit for Ripple Rejection (2)

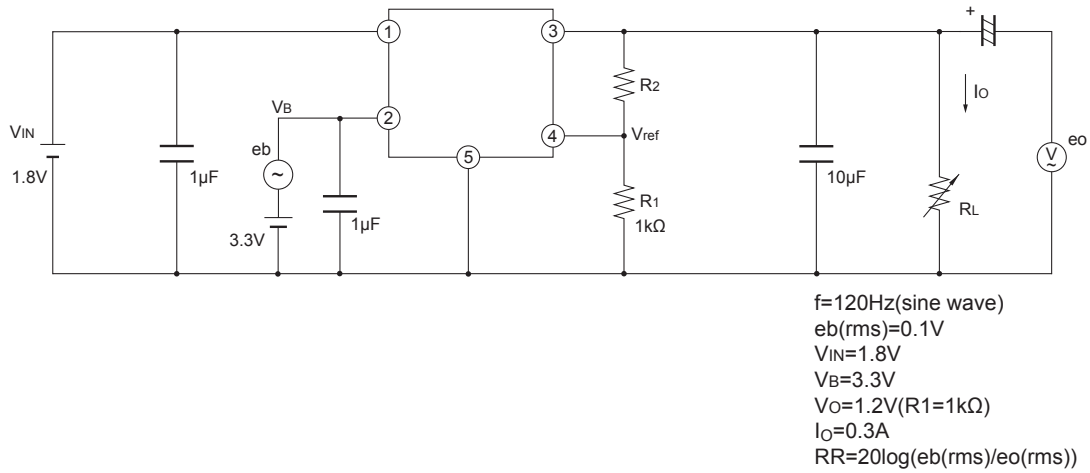
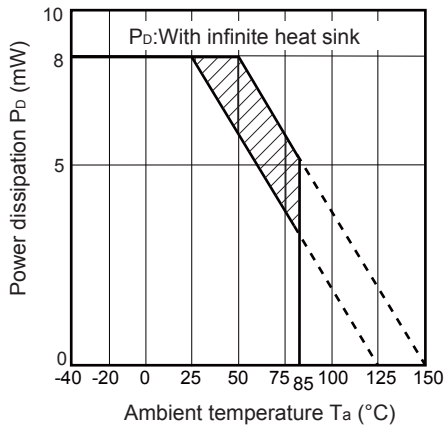


Fig.4 Power Dissipation vs. Ambient Temperature



Note) Oblique line portion: Overheat protection may operate in this area.

Fig.5 Overcurrent Protection Characteristics

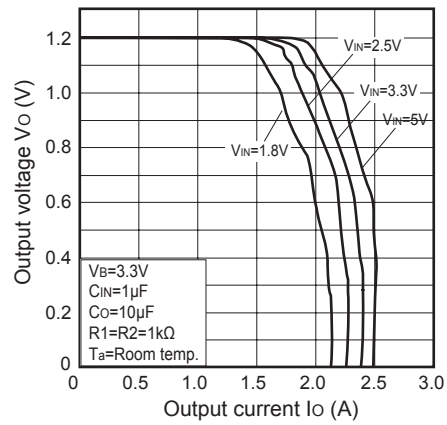


Fig.6 Reference Voltage vs. Ambient Temperature

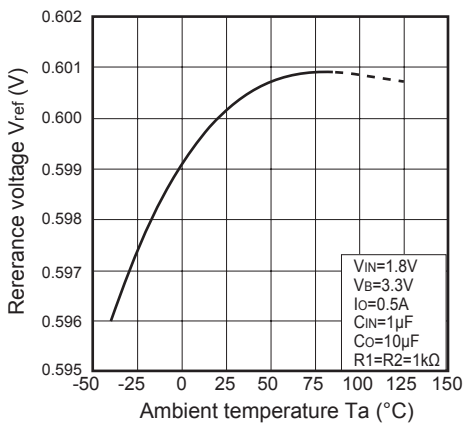


Fig.7 Load Regulation vs. Ambient Temperature

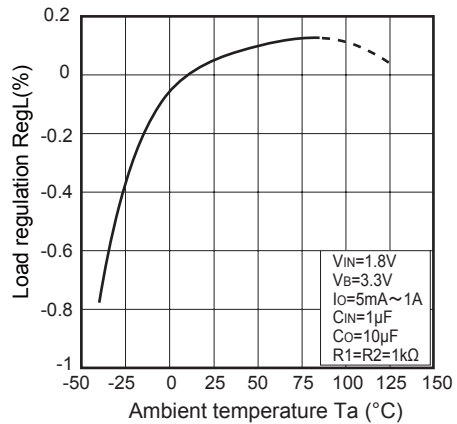


Fig.8 Line Regulation vs. Ambient Temperature

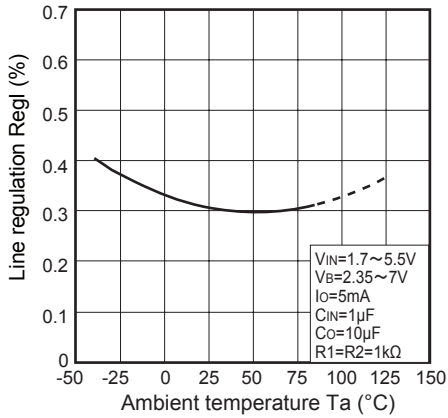


Fig.9 Bias Inflow Current vs. Ambient Temperature

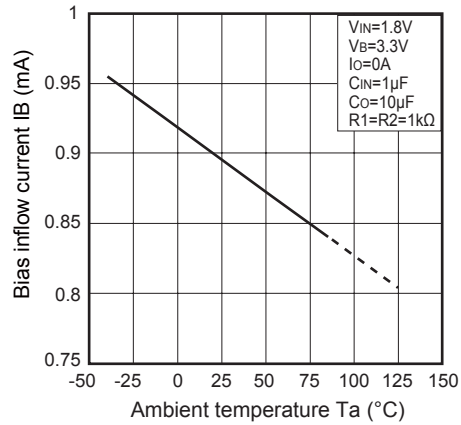


Fig.10 Short circuit Current vs. Ambient Temperature

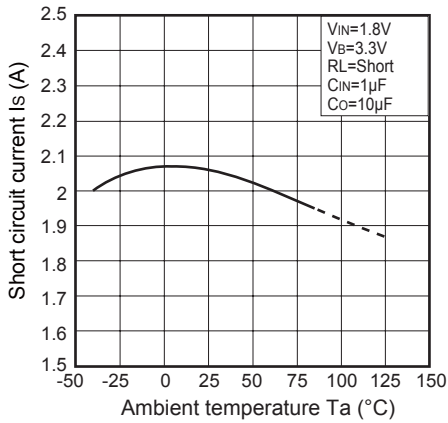


Fig.11 Output Voltage vs. Input Voltage

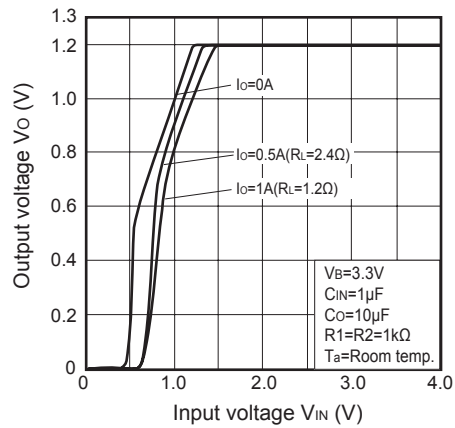


Fig.12 Output Voltage vs. Bias Supply Voltage

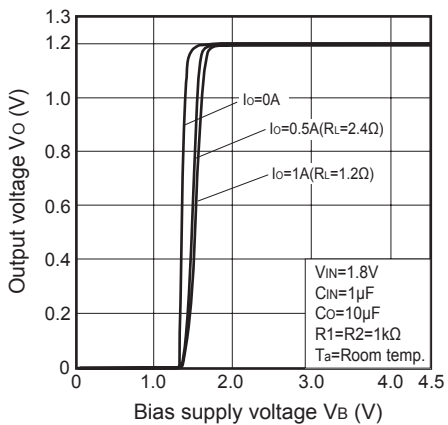


Fig.13 Dropout Voltage vs. Ambient Temperature

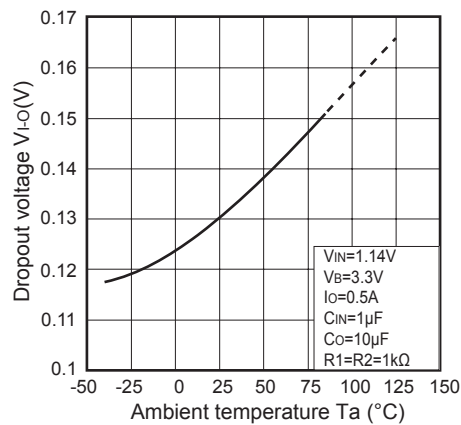


Fig.14 Output Voltage Deviation vs. Output Current

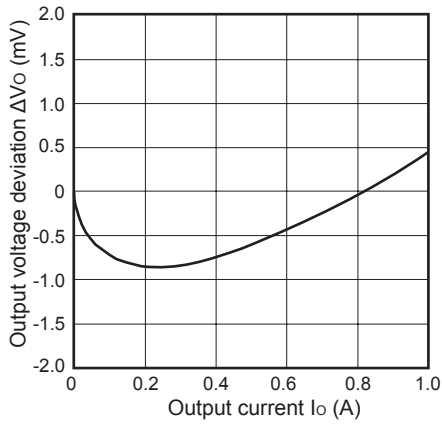


Fig.15 Output Voltage Deviation vs. Input Voltage / Bias Supply Voltage

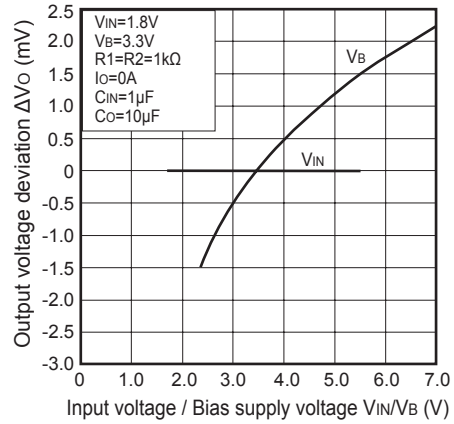


Fig.16 Input Current vs. Input Voltage

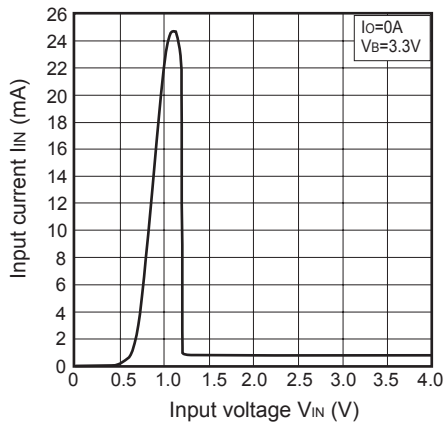


Fig.17 Bias Inflow Current vs. Input Voltage

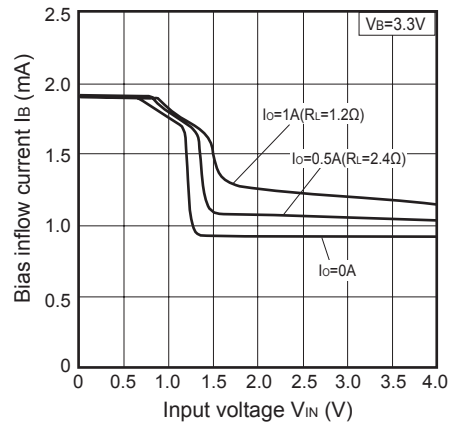


Fig.18 Bias Inflow Current vs. Bias Supply Voltage

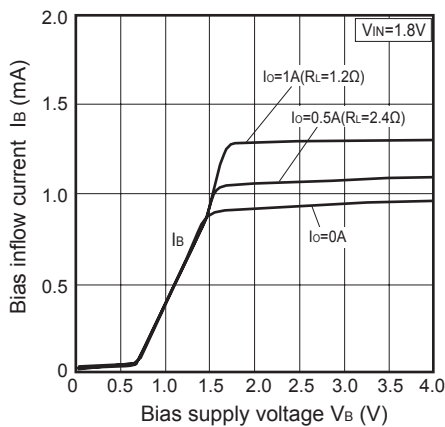


Fig.19 Output Voltage Adjustment Characteristics(Typical Value)

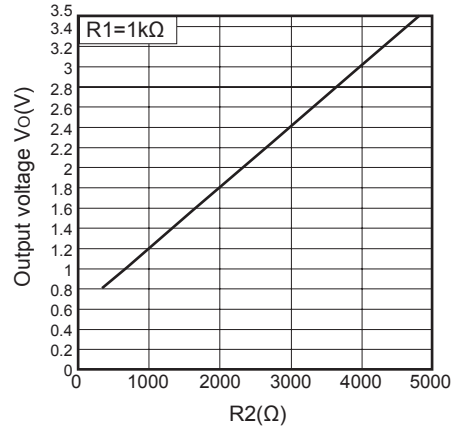
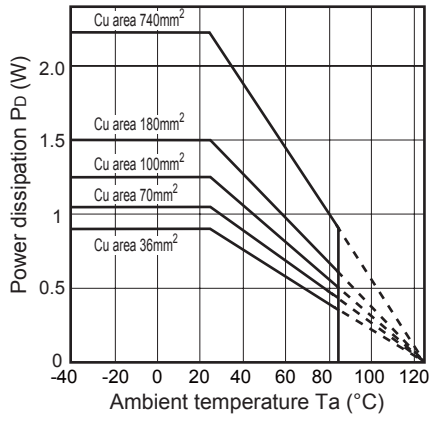
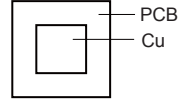


Fig.20 Power Dissipation vs. Ambient Temperature (Typical Value)



Mounting PCB



Material : Glass-cloth epoxy resin
 Size : 50×50×1.6mm
 Cu thickness : 35μm