



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Table 4 Group A Inspection

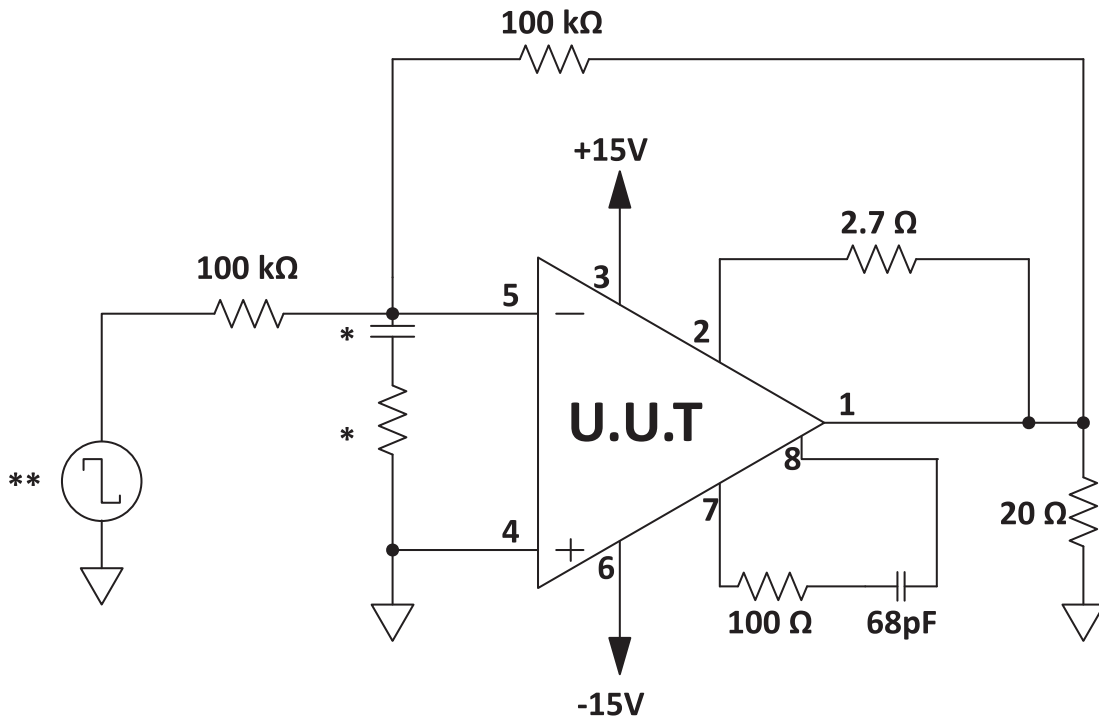
SG	Parameter ***	Symbol	Temp.	Power	Test Conditions	Min	Max	Units
1	Quiescent Current	I_Q	25°C	±150V	$V_{IN} = 0, A_V = 100$		25	mA
1	Input Offset Voltage	V_{OS}	25°C	±15V	$V_{IN} = 0, A_V = 100$		±4	mV
1	Input Offset Voltage	V_{OS}	25°C	±150V	$V_{IN} = 0, A_V = 100$		±2	mV
1	Input Bias Current, +IN	$+I_B$	25°C	±150V	$V_{IN} = 0$		±50	pA
1	Input Bias Current, -IN	$-I_B$	25°C	±150V	$V_{IN} = 0$		±50	pA
1	Input Offset Current	I_{OS}	25°C	±150V	$V_{IN} = 0$		±100	pA
3	Quiescent Current	I_Q	-55°C	±150V	$V_{IN} = 0, A_V = 100$		28	mA
3	Input Offset Voltage	V_{OS}	-55°C	±15V	$V_{IN} = 0, A_V = 100$		±6.4	mV
3	Input Offset Voltage	V_{OS}	-55°C	±150V	$V_{IN} = 0, A_V = 100$		±4.4	mV
3	Input Bias Current, +IN	$+I_B$	-55°C	±150V	$V_{IN} = 0$		±50	pA
3	Input Bias Current, -IN	$-I_B$	-55°C	±150V	$V_{IN} = 0$		±50	pA
3	Input Offset Current	I_{OS}	-55°C	±150V	$V_{IN} = 0$		±50	pA
2	Quiescent Current	I_Q	125°C	±150V	$V_{IN} = 0, A_V = 100$		28	mA
2	Input Offset Voltage	V_{OS}	125°C	±15V	$V_{IN} = 0, A_V = 100$		±7	mV
2	Input Offset Voltage	V_{OS}	125°C	±150V	$V_{IN} = 0, A_V = 100$		±5	mV
2	Input Bias Current, +IN	$+I_B$	125°C	±150V	$V_{IN} = 0$		±10	nA
2	Input Bias Current, -IN	$-I_B$	125°C	±150V	$V_{IN} = 0$		±10	nA
2	Input Offset Current	I_{OS}	125°C	±150V	$V_{IN} = 0$		±10	nA
4	Output Voltage, $I_O = 200mA$	V_O	25°C	±50V	$R_L = 200 \Omega$	40		V
4	Output Voltage, $I_O = 70mA$	V_O	25°C	±150V	$R_L = 2 k\Omega$	141		V
4	Output Voltage, $I_O = 20mA$	V_O	25°C	±48V	$R_L = 2 k\Omega$	40		V
4	Current Limits	I_{CL}	25°C	±50V	$R_{CL} = 10 \Omega, R_L = 200 \Omega$	60	112	A
4	Stability/Noise	E_N	25°C	±150V	$C_C = 68pF, R_C = 100 \Omega, A_V = +1, C_L = 470pF$		1	mV
4	Slew Rate	SR	25°C	±150V	$R_L = 2 k\Omega, A_V = 100, C_C = OPEN$	400		V/ μs
4	Open Loop Gain	A_{OL}	25°C	±150V	$R_L = 2 k\Omega, F = 15 Hz, C_C = OPEN$	96		dB
4	Common Mode Rejection	CMR	25°C	±150V	$F = DC, V_{CM} = \pm 90V$	90		dB

PA85M

SG	Parameter	Symbol	Temp.	Power	Test Conditions	Min	Max	Units
6	Output Voltage, $I_O = 200\text{mA}$	V_O	-55°C	$\pm 50\text{V}$	$R_L = 200\ \Omega$	40		V
6	Output Voltage, $I_O = 70\text{mA}$	V_O	-55°C	$\pm 150\text{V}$	$R_L = 2\ \text{k}\Omega$	141		V
6	Output Voltage, $I_O = 20\text{mA}$	V_O	-55°C	$\pm 48\text{V}$	$R_L = 2\ \text{k}\Omega$	40		V
6	Stability/Noise	E_N	-55°C	$\pm 150\text{V}$	$C_C = 68\text{pF}$, $R_C = 100\ \Omega$, $A_V = +1$, $C_L = 470\text{pF}$		1	mV
6	Slew Rate	SR	-55°C	$\pm 150\text{V}$	$R_L = 2\ \text{k}\Omega$, $A_V = 100$, $C_C = \text{OPEN}$	400		V/ μs
6	Open Loop Gain	A_{OL}	-55°C	$\pm 150\text{V}$	$R_L = 2\ \text{k}\Omega$, $F = 15\ \text{Hz}$, $C_C = \text{OPEN}$	96		dB
6	Common Mode Rejection	CMR	-55°C	$\pm 150\text{V}$	$F = \text{DC}$, $V_{CM} = \pm 90\text{V}$	90		dB
5	Output Voltage, $I_O = 150\text{mA}$	V_O	125°C	$\pm 40\text{V}$	$R_L = 200\ \Omega$	30		V
5	Output Voltage, $I_O = 70\text{mA}$	V_O	125°C	$\pm 150\text{V}$	$R_L = 2\ \text{k}\Omega$	141		V
5	Output Voltage, $I_O = 20\text{mA}$	V_O	125°C	$\pm 48\text{V}$	$R_L = 2\ \text{k}\Omega$	40		V
5	Stability/Noise	E_N	125°C	$\pm 150\text{V}$	$C_C = 68\text{pF}$, $R_C = 100\ \Omega$, $A_V = +1$, $C_L = 470\text{pF}$		1	mV
5	Slew Rate	SR	125°C	$\pm 150\text{V}$	$R_L = 2\ \text{k}\Omega$, $A_V = 100$, $C_C = \text{OPEN}$	400		V/ μs
5	Open Loop Gain	A_{OL}	125°C	$\pm 150\text{V}$	$R_L = 2\ \text{k}\Omega$, $F = 15\ \text{Hz}$, $C_C = \text{OPEN}$	96		dB
5	Common Mode Rejection	CMR	125°C	$\pm 150\text{V}$	$F = \text{DC}$, $V_{CM} = \pm 90\text{V}$	90		dB

BURN IN CIRCUIT

Figure 1: Burn In Circuit



- * These components are used to stabilize device due to poor high frequency characteristics of burn in board.
- ** Input signals are calculated to result in internal power dissipation of approximately 2.1W at case temperature = 125°C.
- *** An additional test is performed manually at $T_C = 25^\circ\text{C}$ which stresses power supply, common mode range and output swing to $\pm 225\text{V}$ (450V total).

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