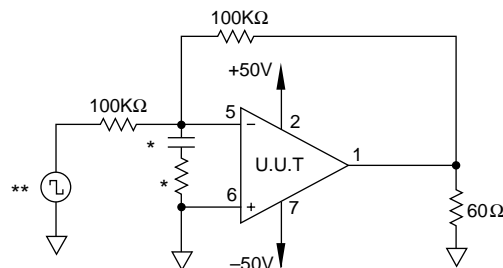


PA83M

SG	PARAMETER	SYMBOL	TEMP.	POWER	TEST CONDITIONS	MIN	MAX	UNITS
1	Quiescent Current	I_Q	25°C	±150V	$V_{IN} = 0, A_V = 100$		8.5	mA
1	Input Offset Voltage	V_{OS}	25°C	±150V	$V_{IN} = 0, A_V = 100$		3	mV
1	Input Offset Voltage	V_{OS}	25°C	±15V	$V_{IN} = 0, A_V = 100$		5.7	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	$V_{IN} = 0$		50	pA
3	Quiescent Current	I_Q	-55°C	±150V	$V_{IN} = 0, A_V = 100$		10	mA
3	Input Offset Voltage	V_{OS}	-55°C	±150V	$V_{IN} = 0, A_V = 100$		5	mV
3	Input Offset Voltage	V_{OS}	-55°C	±15V	$V_{IN} = 0, A_V = 100$		7.7	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	$V_{IN} = 0, A_V = 100$		10	mA
2	Input Offset Voltage	V_{OS}	125°C	±150V	$V_{IN} = 0, A_V = 100$		5.5	mV
2	Input Offset Voltage	V_{OS}	125°C	±15V	$V_{IN} = 0, A_V = 100$		8.2	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, $I_O = 75mA$	V_O	25°C	±85V	$R_L = 1K$	75		V
4	Output Voltage, $I_O = 29mA$	V_O	25°C	±150V	$R_L = 5K$	145		V
4	Current Limits	I_{CL}	25°C	±30V	$R_L = 100\Omega$	75	125	mA
4	Stability/Noise	E_N	25°C	±150V	$R_L = 5K, A_V = 1, C_L = 10nF$		1	mV
4	Slew Rate	SR	25°C	±150V	$R_L = 5K$	20	80	V/ μs
4	Open Loop Gain	A_{OL}	25°C	±150V	$R_L = 5K, F = 10Hz$	96		dB
4	Common Mode Rejection	CMR	25°C	±32.5V	$R_L = 5K, F = DC, V_{CM} = \pm 22.5V$	90		dB
6	Output Voltage, $I_O = 40mA$	V_O	-55°C	±45V	$R_L = 1K$	40		V
6	Output Voltage, $I_O = 29mA$	V_O	-55°C	±150V	$R_L = 5K$	145		V
6	Stability/Noise	E_N	-55°C	±150V	$R_L = 5K, A_V = 1, C_L = 10nF$		1	mV
6	Slew Rate	SR	-55°C	±150V	$R_L = 5K$	20	80	V/ μs
6	Open Loop Gain	A_{OL}	-55°C	±150V	$R_L = 5K, F = 10Hz$	96		dB
6	Common Mode Rejection	CMR	-55°C	±32.5V	$R_L = 5K, F = DC, V_{CM} = \pm 22.5V$	90		dB
5	Output Voltage, $I_O = 40mA$	V_O	125°C	±45V	$R_L = 1K$	40		V
5	Output Voltage, $I_O = 29mA$	V_O	125°C	±150V	$R_L = 5K$	145		V
5	Stability/Noise	E_N	125°C	±150V	$R_L = 5K, A_V = 1, C_L = 10nF$		1	mV
5	Slew Rate	SR	125°C	±150V	$R_L = 5K$	20	80	V/ μs
5	Open Loop Gain	A_{OL}	125°C	±150V	$R_L = 5K, F = 10Hz$	96		dB
5	Common Mode Rejection	CMR	125°C	±32.5V	$R_L = 5K, F = DC, V_{CM} = \pm 22.5V$	90		dB

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.