



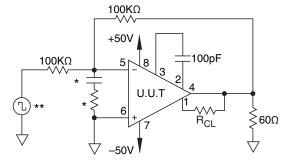


## Table 4 Group A Inspection

SG	PARAMETER	SYMBOL	TEMP.	POWER	TEST CONDITIONS	MIN	MAX	UNITS
1 1 1 1 1 1 1	Quiescent Current Input Offset Voltage Input Offset Voltage Input Offset Voltage Input Bias Current, +IN Input Bias Current, -IN Input Offset Current	I	25°C 25°C 25°C 25°C 25°C 25°C 25°C	±150V ±150V ±50V ±175V ±150V ±150V	$\begin{aligned} &V_{IN} = 0,  A_{V} = 100 \\ &V_{IN} = 0 \\ &V_{IN} = 0 \\ &V_{IN} = 0 \end{aligned}$		2.5 30 30 30 50 50	mA mV mV pA pA pA
3 3 3 3 3	Quiescent Current Input Offset Voltage Input Offset Voltage Input Bias Current, +IN Input BiasCurrent, -IN Input Offset Current		-40°C -40°C -40°C -40°C -40°C -40°C	±150V ±150V ±50V ±150V ±150V ±150V	$V_{IN} = 0, A_{V} = 100$ $V_{IN} = 0, A_{V} = 100$ $V_{IN} = 0, A_{V} = 100$ $V_{IN} = 0$ $V_{IN} = 0$ $V_{IN} = 0$		2.5 60 60 50 50 50	mA mV mV pA pA pA
2 2 2 2 2 2 2	Quiescent Current Input Offset Voltage Input Offset Voltage Input Offset Voltage Input Bias Current, +IN Input Bias Current, -IN Input Offset Current		125°C 125°C 125°C 125°C 125°C 125°C 125°C	±150V ±150V ±50V ±175V ±150V ±150V	$\begin{aligned} &V_{IN} = 0,  A_V = 100 \\ &V_{IN} = 0 \\ &V_{IN} = 0 \\ &V_{IN} = 0 \end{aligned}$		3 30 30 30 1 1	mA mV mV nA nA
4 4 4 4 4	Output Voltage Current Limits Stability/Noise Slew Rate Open Loop Gain Common Mode Rejection	V <sub>o</sub> I <sub>CL</sub> E <sub>N</sub> SR A <sub>OL</sub> CMR	25°C 25°C 25°C 25°C 25°C 25°C	±52V ±30V ±150V ±150V ±150V ±102V	$\begin{aligned} &R_{L} = 1\text{K, I}_{O} = 40\text{mA} \\ &R_{L} = 100\Omega \\ &R_{L} = 5\text{K, A}_{V} = 1, C_{L} = 10\text{nF, C}_{C} = 68\text{pF} \\ &R_{L} = 5\text{K, C}_{C} = 6.8\text{pF} \\ &R_{L} = 5\text{K, F} = 15\text{Hz} \\ &R_{L} = 5\text{K, F} = D\text{C, V}_{\text{CM}} = \pm 90\text{V} \end{aligned}$	40 50 5 90 84	125 10	V mA mVrms V/µs dB dB
6 6 6	Output Voltage Slew Rate Open Loop Gain Common Mode Rejection	V <sub>o</sub> SR A <sub>o∟</sub> CMR	-40°C -40°C -40°C -40°C	±52V ±150V ±150V ±102V	$R_{L} = 1K, I_{O} = 40mA$ $R_{L} = 5K, C_{C} = 6.8pF$ $R_{L} = 5K, F = 15Hz$ $R_{L} = 5K, F = DC, V_{CM} = \pm 90V$	40 5 90 80		V V/µs dB dB
5 5 5 5	Output Voltage Slew Rate Open Loop Gain Common Mode Rejection	V <sub>o</sub> SR A <sub>o∟</sub> CMR	125°C 125°C 125°C 125°C	±50V ±150V ±150V ±102V	$\begin{aligned} & R_{L} = 1 \text{K, I}_{O} = 30 \text{mA} \\ & R_{L} = 5 \text{K, C}_{C} = 6.8 \text{pF} \\ & R_{L} = 5 \text{K, F} = 15 \text{Hz} \\ & R_{L} = 5 \text{K, F} = D \text{C, V}_{\text{CM}} = \pm 90 \text{V} \end{aligned}$	30 5 90 80		V V/µs dB dB

The PA241M is available ONLY in the CE (8-pin TO-3) package style.

## **BURN IN CIRCUIT**



- \* These components are used to stabilize device due to poor high frequency characteristics of burn in board.
- Internal power dissipation of approximately 2.1W at case temperature = 125°C.







## CONTACTING CIRRUS LOGIC SUPPORT

For all Apex Precision Power product questions and inquiries, call toll free 800-546-2739 in North America. For inquiries via email, please contact apex.support@cirrus.com.

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