



OPA600

ABRIDGED DATA SHEET For Additional Technical Information, Request PDS-672.

Fast-Settling Wideband OPERATIONAL AMPLIFIER

FEATURES

- FAST SETTLING: 80ns to ±0.1%
 100ns to ±0.01%
- FULL DIFFERENTIAL FET INPUT
- -25°C to +85°C AND
 -55°C to +125°C TEMPERATURE RANGES
- ±10V OUTPUT: 200mA
- GAIN BANDWIDTH PRODUCT: 5GHz

DESCRIPTION

The OPA600 is a wideband operational amplifier specifically designed for fast settling to $\pm 0.01\%$ accuracy. It is stable, easy to use, has good phase margin with minimum overshoot, and it has excellent DC performance. It utilizes an FET input stage to give low input bias current. Its DC stability over temperature is outstanding. The slew rate exceeds $400V/\mu s$. All of this combines to form an outstanding amplifier for large and small signals.

High accuracy with fast settling time is achieved by using a high open-loop gain which provides the accuracy at high frequencies. The thermally balanced design maintains this accuracy without droop or thermal tail. External

Tel: (602) 746-1111 • Twx: 910-952-1111 • Cable: BBRCORP

APPLICATIONS

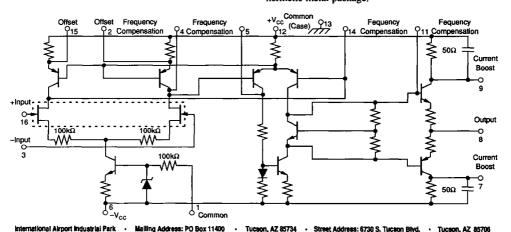
- VOLTAGE CONTROLLED OSCILLATOR DRIVER
- LARGE SIGNAL, WIDEBAND DRIVERS
- HIGH SPEED D/A CONVERTER OUTPUT AMPLIFIER
- VIDEO PULSE AMPLIFIER

frequency compensation allows the user to optimize the settling time for various gains and load conditions.

The OPA600 is useful in a broad range of video, high speed test circuits and ECM applications. It is particularly well suited to operate as a voltage controlled oscillator (VCO) driver. It makes an excellent digital-to-analog converter output amplifier. It is a workhorse in test equipment where fast pulses, large signals, and 50Ω drive are important. It is a good choice for sample/holds, integrators, fast waveform generators, and multiplexers.

The OPA600 is specified over the industrial temperature range (OPA600BM, CM) and military temperature range (OPA600SM, TM). The OPA600 is housed in a welded, hermetic metal package.

Telex: 066-6491 • FAX: (602) 889-1510 • Immediate Product Info: (800) 548-6132



PDS-672

For Immediate Assistance, Contact Your Local Salesperson

SPECIFICATIONS

ELECTRICAL

At $V_{cc} = \pm 15$ VDC and $T_A = +25$ °C unless otherwise noted.

	CONDITIONS	OPA600CM,TM ⁽¹⁾			OPA600BM,SM			
PARAMETER		MIN	TYP	MAX	MIN	TYP	MAX	UNITS
OUTPUT		•		•	•			•
Voltage	R _i = 2kΩ	±10			•			v
	R, ≈ 50Ω ⁽²⁾	±9						Ιċ
Current	$R_i = 50\Omega^{(2)}$	±180	±200			•		mA
Current Pulse	$R_i = 50\Omega^{(3)}$	±180	±200					mА
Resistance	Open Loop DC		75					Ω
Short-Circuit Current	To COMMON Only, t _{max} = 1s ⁽⁴⁾		250	300			١ ٠	mA
DYNAMIC RESPONSE		•						
Settling Time(5): to ±0.01% (±1mV)	ΔV _{OUT} = 10V		100	125		•	•	ns
to ±0.1% (±10mV)	ΔV _{OUT} = 10V		80	105			1 •	ns
to ±1% (±100mV)	ΔV _{OUT} = 10V		70	95		١ ٠		ns
Gain-Bandwidth Product (open-loop)	C _c = 0pF, G = 1V/V		150			•		MHz
	C = 0pF, G = 10V/V	1	500			٠.		MHz
	C _c = 0pF, G = 100V/V		1.5					GHz
	C _c = 0pF, G = 1000V/V		5	ŀ		٠.		GHz
	$C_c = 0pF, G = 10,000V/V$		10			٠ ا		GHz
Bandwidth (-3dB small signal) ⁽⁶⁾	G = +1V/V	1	125					MHz
, ,	G = -1V/V		90					MHz
	G = -10V/V		95					MHz
	G = -100V/V		20					MHz
	G = -1000V/V		6					MHz
Full Power Bandwidth	$V_{OUT} = \pm 5V$, $G = -1V/V$, $C_{C} = 3.3pF$, $R_{L} = 100\Omega$		16			٠		MHz
Slew Rate	$V_{OUT} = \pm 5V$, $G = -1000V/V$, $C_{C} = 0pF$, $H_{L} = 100\Omega$		500			•		V/µs
	$V_{OUT} = \pm 5V, G = -1V/V^{(4)}$	400	440		•	٠		V/µs
Phase Margin	$G = -1V/V, C_c = 3.3pF$	<u> </u>	40			•		Degree
GAIN								
Open-Loop Voltage Gain	$f = DC$, $R_L = 2k\Omega$, $T_A = +25^{\circ}C$	86	94		<u> </u>	_ •		dB
INPUT								
04 - 11 1: 17:			±1	±4		±2	l ±5 l	m۷
Offset Voltage ⁽⁷⁾	T _A = +25°C							
Offset Voltage ⁽⁷⁾	T _A = -25°C to +85°C			±5			±10	m∨
Offset Voltage ⁽¹⁾	T _A = -25°C to +85°C T _A = -55°C to +125°C			±5 ±6	_			mV mV
Offset Voltage ⁽⁷⁾ Offset Voltage Drift	T _A = -25°C to +85°C						±10	
	T _A = -25°C to +85°C T _A = -55°C to +125°C			±6		_	±10 ±15	m۷
	$T_A = -25^{\circ}\text{C}$ to +85°C $T_A = -55^{\circ}\text{C}$ to +125°C $T_A = -25^{\circ}\text{C}$ to +85°C		-20	±6 ±20			±10 ±15 ±80	mV μV/°C
Offset Voltage Drift	$T_A = -25^{\circ}\text{C to} + 85^{\circ}\text{C}$ $T_A = -55^{\circ}\text{C to} + 125^{\circ}\text{C}$ $T_A = -25^{\circ}\text{C to} + 85^{\circ}\text{C}$ $T_A = -55^{\circ}\text{C to} + 125^{\circ}\text{C}$		-20 -20	±6 ±20 ±20		•	±10 ±15 ±80	mV μV/°C μV/°C
Offset Voltage Drift	$T_A = -25^{\circ}C$ to +85°C $T_A = -55^{\circ}C$ to +125°C $T_A = -25^{\circ}C$ to +85°C $T_A = -55^{\circ}C$ to +125°C $T_A = +25^{\circ}C$			±6 ±20 ±20			±10 ±15 ±80 ±100	mV μV/°C μV/°C pA
Offset Voltage Drift Blas Current	$T_A = -25^{\circ}C$ to +85°C $T_A = -55^{\circ}C$ to +125°C $T_A = -25^{\circ}C$ to +125°C		20	±6 ±20 ±20		•	±10 ±15 ±80 ±100	mV μV/°C μV/°C pA nA
Offset Voltage Drift Bias Current Offset Current	$T_{A} = -25^{\circ}C \text{ to } +85^{\circ}C$ $T_{A} = -55^{\circ}C \text{ to } +125^{\circ}C$ $T_{A} = -25^{\circ}C \text{ to } +85^{\circ}C$ $T_{A} = -55^{\circ}C \text{ to } +125^{\circ}C$ $T_{A} = +25^{\circ}C$ $T_{A} = -25^{\circ}C \text{ to } +125^{\circ}C$ $T_{A} = -25^{\circ}C \text{ to } +125^{\circ}C$ $T_{A} = -55^{\circ}C \text{ to } +125^{\circ}C$		-20 20 20	±6 ±20 ±20 -100 -100		•	±10 ±15 ±80 ±100	mV μV/°C μV/°C pA nA pA nA
Offset Voltage Drift Bias Current Offset Current Power Supply Rejection Ratio	$T_A = -25^{\circ}C \text{ to } +85^{\circ}C$ $T_A = -55^{\circ}C \text{ to } +125^{\circ}C$ $T_A = -25^{\circ}C \text{ to } +85^{\circ}C$ $T_A = -55^{\circ}C \text{ to } +125^{\circ}C$ $T_A = -25^{\circ}C \text{ to } +125^{\circ}C$ $T_A = -25^{\circ}C \text{ to } +125^{\circ}C$ $T_A = -25^{\circ}C \text{ to } +125^{\circ}C$ $T_A = +25^{\circ}C$	-10	20 20	±6 ±20 ±20 -100 -100	•	•	±10 ±15 ±80 ±100	mV μV/°C μV/°C pA nA pA nA
Offset Voltage Drift Blas Current Offset Current Power Supply Rejection Ratio Common-Mode Voltage Range	$T_A = -25^{\circ}C \text{ to } +85^{\circ}C$ $T_A = -55^{\circ}C \text{ to } +125^{\circ}C$ $T_A = -25^{\circ}C \text{ to } +85^{\circ}C$ $T_A = -55^{\circ}C \text{ to } +125^{\circ}C$ $T_A = -25^{\circ}C \text{ to } +125^{\circ}C$ $T_A = -25^{\circ}C \text{ to } +125^{\circ}C$ $T_A = -25^{\circ}C \text{ to } +125^{\circ}C$ $T_A = -55^{\circ}C \text{ to } +125^{\circ}C$ $V_{cc} = \pm15V, \pm1V$	-10 60	-20 20 20 20	±6 ±20 ±20 -100 -100	•	•	±10 ±15 ±80 ±100	mV μV/°C μV/°C pA nA pA nA μV/V V
Offset Voltage Drift Bias Current Offset Current Power Supply Rejection Ratio	$T_A = -25^{\circ}C \text{ to } +85^{\circ}C$ $T_A = -55^{\circ}C \text{ to } +125^{\circ}C$ $T_A = -25^{\circ}C \text{ to } +85^{\circ}C$ $T_A = -55^{\circ}C \text{ to } +125^{\circ}C$ $T_A = -25^{\circ}C \text{ to } +125^{\circ}C$ $T_A = -25^{\circ}C \text{ to } +125^{\circ}C$ $T_A = -25^{\circ}C \text{ to } +125^{\circ}C$ $V_{CC} = \pm 15V, \pm 1V$ $V_{CM} = -5V \text{ to } +5V$	-10 60	-20 20 20 200 80	±6 ±20 ±20 -100 -100	•	•	±10 ±15 ±80 ±100	mV μV/C μV/C pA nA pA nA μV/V V dB
Offset Voltage Drift Blas Current Offset Current Power Supply Rejection Ratio Common-Mode Voltage Range Common-Mode Rejection Ratio	$T_A = -25^{\circ}C \text{ to } +85^{\circ}C$ $T_A = -55^{\circ}C \text{ to } +125^{\circ}C$ $T_A = -25^{\circ}C \text{ to } +85^{\circ}C$ $T_A = -55^{\circ}C \text{ to } +125^{\circ}C$ $T_A = -25^{\circ}C \text{ to } +125^{\circ}C$ $T_A = -25^{\circ}C \text{ to } +125^{\circ}C$ $T_A = -25^{\circ}C \text{ to } +125^{\circ}C$ $T_A = -55^{\circ}C \text{ to } +125^{\circ}C$ $V_{cc} = \pm15V, \pm1V$		-20 20 20 20	±6 ±20 ±20 -100 -100	•	•	±10 ±15 ±80 ±100	mV μV/°C μV/°C pA nA pA nA μV/V V dB Ω pF
Offset Voltage Drift Bias Current Offset Current Power Supply Rejection Ratio Common-Mode Voltage Range Common-Mode Rejection Ratio Impedance	$T_{A} = -25^{\circ}C \text{ to } +85^{\circ}C$ $T_{A} = -55^{\circ}C \text{ to } +125^{\circ}C$ $T_{A} = -25^{\circ}C \text{ to } +125^{\circ}C$ $T_{A} = -55^{\circ}C \text{ to } +125^{\circ}C$ $T_{A} = +25^{\circ}C$ $T_{A} = -25^{\circ}C \text{ to } +125^{\circ}C$ $T_{A} = -25^{\circ}C \text{ to } +125^{\circ}C$ $T_{A} = -25^{\circ}C \text{ to } +125^{\circ}C$ $V_{CC} = \pm 15^{\circ}C \text{ to } +125^{\circ}C$ $V_{CM} = -5^{\circ}C \text{ to } +5^{\circ}C$ Differential and Common-Mode		-20 20 20 200 80 10" 2	±6 ±20 ±20 -100 -100	•	•	±10 ±15 ±80 ±100	mV μV/°C μV/°C pA nA pA nA μV/V V dB Ω pF
Offset Voltage Drift Blas Current Offset Current Power Supply Rejection Ratio Common-Mode Voltage Range Common-Mode Rejection Ratio Impedance Voltage Noise POWER SUPPLY	$T_{A} = -25^{\circ}C \text{ to } +85^{\circ}C$ $T_{A} = -55^{\circ}C \text{ to } +125^{\circ}C$ $T_{A} = -25^{\circ}C \text{ to } +125^{\circ}C$ $T_{A} = -55^{\circ}C \text{ to } +125^{\circ}C$ $T_{A} = +25^{\circ}C$ $T_{A} = -25^{\circ}C \text{ to } +125^{\circ}C$ $T_{A} = -25^{\circ}C \text{ to } +125^{\circ}C$ $T_{A} = -25^{\circ}C \text{ to } +125^{\circ}C$ $V_{CC} = \pm 15^{\circ}C \text{ to } +125^{\circ}C$ $V_{CM} = -5^{\circ}C \text{ to } +5^{\circ}C$ Differential and Common-Mode		-20 20 20 200 80 10" 2 20	±6 ±20 ±20 -100 -100	•	•	±10 ±15 ±80 ±100	mV μV/°C μV/°C pA nA pA nA μV/∨ ∨ dB Ω pF nV√Hz
Offset Voltage Drift Bias Current Offset Current Power Supply Rejection Ratio Common-Mode Voltage Range Common-Mode Rejection Ratio Impedance Voltage Noise POWER SUPPLY Rated (V _{cc})	$T_{A} = -25^{\circ}C \text{ to } +85^{\circ}C$ $T_{A} = -55^{\circ}C \text{ to } +125^{\circ}C$ $T_{A} = -25^{\circ}C \text{ to } +125^{\circ}C$ $T_{A} = -55^{\circ}C \text{ to } +125^{\circ}C$ $T_{A} = +25^{\circ}C$ $T_{A} = -25^{\circ}C \text{ to } +125^{\circ}C$ $T_{A} = -25^{\circ}C \text{ to } +125^{\circ}C$ $T_{A} = -25^{\circ}C \text{ to } +125^{\circ}C$ $V_{CC} = \pm 15^{\circ}C \text{ to } +125^{\circ}C$ $V_{CM} = -5^{\circ}C \text{ to } +5^{\circ}C$ Differential and Common-Mode	60	-20 20 20 200 80 10" 2	±6 ±20 ±20 -100 -100 500 +7	•	•	±10 ±15 ±80 ±100	mV μV/°C μV/°C pA nA pA nA μV/V V dB Ω pF nV√Hz
Offset Voltage Drift Bias Current Offset Current Power Supply Rejection Ratio Common-Mode Voltage Range Common-Mode Rejection Ratio Impedance Voltage Noise POWER SUPPLY Rated (V _{cc}) Operating Range	$T_{A} = -25^{\circ}C \text{ to } +85^{\circ}C$ $T_{A} = -55^{\circ}C \text{ to } +125^{\circ}C$ $T_{A} = -25^{\circ}C \text{ to } +125^{\circ}C$ $T_{A} = -55^{\circ}C \text{ to } +125^{\circ}C$ $T_{A} = +25^{\circ}C$ $T_{A} = -25^{\circ}C \text{ to } +125^{\circ}C$ $T_{A} = -25^{\circ}C \text{ to } +125^{\circ}C$ $T_{A} = -25^{\circ}C \text{ to } +125^{\circ}C$ $V_{CC} = \pm 15^{\circ}C \text{ to } +125^{\circ}C$ $V_{CM} = -5^{\circ}C \text{ to } +5^{\circ}C$ Differential and Common-Mode		-20 20 20 200 80 10" 2 20	±6 ±20 ±20 -100 -100 500 +7	:	•	±10 ±15 ±80 ±100	mV μV/°C μV/°C pA nA pA nA μV/V V dB Ω pF nV√Hz
Offset Voltage Drift Bias Current Offset Current Power Supply Rejection Ratio Common-Mode Voltage Range Common-Mode Rejection Ratio Impedance Voltage Noise POWER SUPPLY Rated (V _{cc}) Operating Range Quiescent Current	$T_{A} = -25^{\circ}C \text{ to } +85^{\circ}C$ $T_{A} = -55^{\circ}C \text{ to } +125^{\circ}C$ $T_{A} = -25^{\circ}C \text{ to } +125^{\circ}C$ $T_{A} = -55^{\circ}C \text{ to } +125^{\circ}C$ $T_{A} = +25^{\circ}C$ $T_{A} = -25^{\circ}C \text{ to } +125^{\circ}C$ $T_{A} = -25^{\circ}C \text{ to } +125^{\circ}C$ $T_{A} = -25^{\circ}C \text{ to } +125^{\circ}C$ $V_{CC} = \pm 15^{\circ}C \text{ to } +125^{\circ}C$ $V_{CM} = -5^{\circ}C \text{ to } +5^{\circ}C$ Differential and Common-Mode	60	-20 20 20 200 80 10" 2 20	±6 ±20 ±20 -100 -100 500 +7	•	•	±10 ±15 ±80 ±100	mV μV/°C μV/°C pA nA pA nA μV/V dB Ω pF nV√H2
Offset Voltage Drift Blas Current Offset Current Power Supply Rejection Ratio Common-Mode Voltage Range Common-Mode Rejection Ratio Impedance Voltage Noise POWER SUPPLY Rated (Voc) Coperating Range Quiescent Current TEMPERATURE RANGE (Amblent)	$T_{A} = -25^{\circ}C \text{ to } +85^{\circ}C$ $T_{A} = -55^{\circ}C \text{ to } +125^{\circ}C$ $T_{A} = -25^{\circ}C \text{ to } +125^{\circ}C$ $T_{A} = -55^{\circ}C \text{ to } +125^{\circ}C$ $T_{A} = +25^{\circ}C$ $T_{A} = -25^{\circ}C \text{ to } +125^{\circ}C$ $T_{A} = -25^{\circ}C \text{ to } +125^{\circ}C$ $T_{A} = -25^{\circ}C \text{ to } +125^{\circ}C$ $V_{CC} = \pm 15^{\circ}C \text{ to } +125^{\circ}C$ $V_{CM} = -5^{\circ}C \text{ to } +5^{\circ}C$ Differential and Common-Mode	£9	-20 20 20 200 80 10" 2 20	±6 ±20 ±20 -100 -100 -100 500 +7 ±16 ±38		•	±10 ±15 ±80 ±100	mV μV/°C μV/°C pA nA pA nA μV/V dB Ω pF nV√H2 VDC VDC mA
Offset Voltage Drift Blas Current Offset Current Power Supply Rejection Ratio Common-Mode Voltage Range Common-Mode Rejection Ratio Impedance Voltage Noise POWER SUPPLY Rated (Voc) Cperating Range Cuiescent Current TEMPERATURE RANGE (Amblent) Operating: BM, CM	$T_{A} = -25^{\circ}C \text{ to } +85^{\circ}C$ $T_{A} = -55^{\circ}C \text{ to } +125^{\circ}C$ $T_{A} = -25^{\circ}C \text{ to } +125^{\circ}C$ $T_{A} = -55^{\circ}C \text{ to } +125^{\circ}C$ $T_{A} = +25^{\circ}C$ $T_{A} = -25^{\circ}C \text{ to } +125^{\circ}C$ $T_{A} = -25^{\circ}C \text{ to } +125^{\circ}C$ $T_{A} = -25^{\circ}C \text{ to } +125^{\circ}C$ $V_{CC} = \pm 15^{\circ}C \text{ to } +125^{\circ}C$ $V_{CM} = -5^{\circ}C \text{ to } +5^{\circ}C$ Differential and Common-Mode	±9	-20 20 20 200 80 10" 2 20	±6 ±20 ±20 -100 -100 -100 500 +7 ±16 ±38	:	•	±10 ±15 ±80 ±100	mV μV/°C μV/°C pA nA pA nA μV/V v dB Ω pF nV√Hz VDC VDC mA
Offset Voltage Drift Bias Current Offset Current Power Supply Rejection Ratio Common-Mode Voltage Range Common-Mode Rejection Ratio Impedance Voltage Noise POWER SUPPLY Rated (V _{oc}) Coperating Range Quiescent Current TEMPERATURE RANGE (Amblent) Operating: BM, CM SM, TM	$T_{A} = -25^{\circ}C \text{ to } +85^{\circ}C$ $T_{A} = -55^{\circ}C \text{ to } +125^{\circ}C$ $T_{A} = -25^{\circ}C \text{ to } +125^{\circ}C$ $T_{A} = -55^{\circ}C \text{ to } +125^{\circ}C$ $T_{A} = +25^{\circ}C$ $T_{A} = -25^{\circ}C \text{ to } +125^{\circ}C$ $T_{A} = -25^{\circ}C \text{ to } +125^{\circ}C$ $T_{A} = -25^{\circ}C \text{ to } +125^{\circ}C$ $V_{CC} = \pm 15^{\circ}C \text{ to } +125^{\circ}C$ $V_{CM} = -5^{\circ}C \text{ to } +5^{\circ}C$ Differential and Common-Mode	±9 -25 -55	-20 20 20 200 80 10" 2 20	±6 ±20 ±20 -100 -100 -100 500 +7 ±16 ±38	:	•	±10 ±15 ±80 ±100	mV μV/°C pA nA pA nA μV/∨ V σB nV√H2 VDC VDC mA
Offset Voltage Drift Blas Current Offset Current Power Supply Rejection Ratio Common-Mode Voltage Range Common-Mode Rejection Ratio Impedance Voltage Noise POWER SUPPLY Rated (Voc) Cperating Range Cuiescent Current TEMPERATURE RANGE (Amblent) Operating: BM, CM	$T_{A} = -25^{\circ}C \text{ to } +85^{\circ}C$ $T_{A} = -55^{\circ}C \text{ to } +125^{\circ}C$ $T_{A} = -25^{\circ}C \text{ to } +125^{\circ}C$ $T_{A} = -55^{\circ}C \text{ to } +125^{\circ}C$ $T_{A} = +25^{\circ}C$ $T_{A} = -25^{\circ}C \text{ to } +125^{\circ}C$ $T_{A} = -25^{\circ}C \text{ to } +125^{\circ}C$ $T_{A} = -25^{\circ}C \text{ to } +125^{\circ}C$ $V_{CC} = \pm 15^{\circ}C \text{ to } +125^{\circ}C$ $V_{CM} = -5^{\circ}C \text{ to } +5^{\circ}C$ Differential and Common-Mode	±9	-20 20 20 200 80 10" 2 20	±6 ±20 ±20 -100 -100 -100 500 +7 ±16 ±38	:	•	±10 ±15 ±80 ±100	mV μV/°C μV/°C pA nA pA nA μV/V v dB Ω pF nV√Hz VDC VDC mA

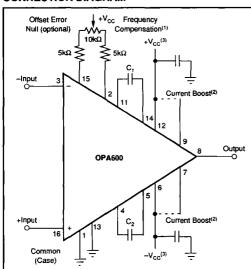
^{*}Specification same as OPA600CM, TM.

NOTES: (1) BM, CM grades: -25° C to $+85^{\circ}$ C. SM, TM grades: -55° C to $+125^{\circ}$ C. (2) Pin 9 connected to $+V_{cc}$, pin 7 connected to $-V_{cc}$. Observe power dissipation ratings. (3) Pin 9 and 7 open. Single pulse t = 100ns. Observe power dissipation ratings. (4) Pin 9 and 7 open. See section on Current Boost. (5) G = -1V/V. Optimum settling time and slew rate achieved by individually compensating each device. Hefer to section on Compensation. (6) Frequency compensation as discussed in section on Compensation. (7) Adjustable to zero.



Or, Call Customer Service at 1-800-548-6132 (USA Only)

CONNECTION DIAGRAM



NOTES: (1) Refer to Figure 4 for recommended frequency compensation. (2) connect pin 9 to pin 12 and connect pin 7 to pin 6 for maximum output current. See Application Information for further information. (3) Bypass each power supply lead as close as possible to the amplifier pins. A 1µF CS13 tantalum capacitor is recommended. (4)There is no internal connection. An external connection may be made. (5) It is recommended that the amplifier be mounted with the case in contact with a ground plane for good thermal transfer and optimum AC performance.

ABSOLUTE MAXIMUM RATINGS(1)

Supply Voltage, +V _{cc} to ~V _{cc}	±17V
Power Dissipation, At T _{CASE} +125°C(2)	1.6W
Input Voltage: Differential	
Common-Mode	
Output Short Circuit Duration to Common	<5s
Temperature: pin (soldering, 20s)	+300°C
Junction(1) ,T,	+175°C
Temperature Range: Storage	65°C to +150°C
Operating (case)	55°C to +125°C

NOTES: (1) Stresses above those listed under "Absolute Maximum Ratings" may cause permanent damage to the device. Exposure to absolute maximum conditions for extended periods may affect device reliability. (2) Long term operation at the maximum junction temperature will result in reduced product life. Derate internal power dissipation to achieve high MTTF.

ORDERING INFORMATION

MODEL	TEMPERATURE RANGE (°C)	VOLTAGE OFFSET DRIFT (μV/°C)
OPA600BM	-25 to +85	±80
OPA600CM	-25 to +85	±20
OPA600SM	-55 to +125	±100
OPA600TM	-25 to +125	±20

PACKAGE INFORMATION(1)

MODEL	PACKAGE	PACKAGE DRAWING NUMBER
OPA600CM	16-Pin	142
OPA600BM	16-Pin	142
OPA600SM	16-Pin	142
OPA600TM	16-Pin	142

NOTE: (1) For detailed drawing and dimension table, please see end of data sheet, or Appendix D of Burr-Brown IC Data Book.

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