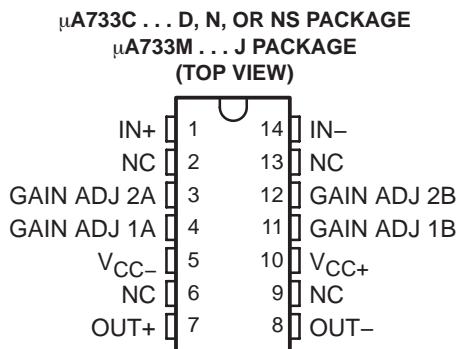
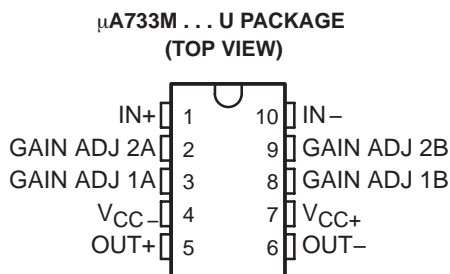


The μA733M is obsolete and no longer supplied.

- 200-MHz Bandwidth
- 250-kΩ Input Resistance
- Selectable Nominal Amplification of 10, 100, or 400
- No Frequency Compensation Required



NC — No internal connection



description/ordering information

The μA733 is a monolithic two-stage video amplifier with differential inputs and differential outputs. Internal series-shunt feedback provides wide bandwidth, low phase distortion, and excellent gain stability. Emitter-follower outputs enable the device to drive capacitive loads, and all stages are current-source biased to obtain high common-mode and supply-voltage rejection ratios.

Fixed differential amplification of 10 V/V, 100 V/V, or 400 V/V may be selected without external components, or amplification may be adjusted from 10 V/V to 400 V/V by the use of a single external resistor connected between 1A and 1B. No external frequency-compensating components are required for any gain option.

The device is particularly useful in magnetic-tape or disc-file systems using phase or NRZ encoding and in high-speed thin-film or plated-wire memories. Other applications include general-purpose video and pulse amplifiers where wide bandwidth, low phase shift, and excellent gain stability are required.

The μA733C is characterized for operation from 0°C to 70°C; the μA733M is characterized for operation over the full military temperature range of –55°C to 125°C.

ORDERING INFORMATION

TA	PACKAGE†		ORDERABLE PART NUMBER	TOP-SIDE MARKING
0°C to 70°C	P-DIP (N)	Tube of 25	UA733CN	UA733CN
		Reel of 2500	UA733CDR	UA733C
	SOIC (D)	Tube of 50	UA733CD	UA733C
		Reel of 2500	UA733CDR	UA733C
	SOP (NS)	Reel of 2000	UA733CNSR	UA733

† Package drawings, standard packing quantities, thermal data, symbolization, and PCB design guidelines are available at www.ti.com/sc/package.



Please be aware that an important notice concerning availability, standard warranty, and use in critical applications of Texas Instruments semiconductor products and disclaimers thereto appears at the end of this data sheet.

PRODUCTION DATA information is current as of publication date. Products conform to specifications per the terms of Texas Instruments standard warranty. Production processing does not necessarily include testing of all parameters.



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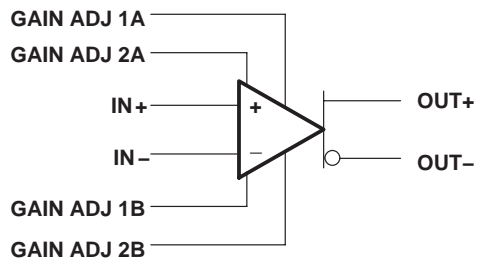
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μ A733C, μ A733M DIFFERENTIAL VIDEO AMPLIFIERS

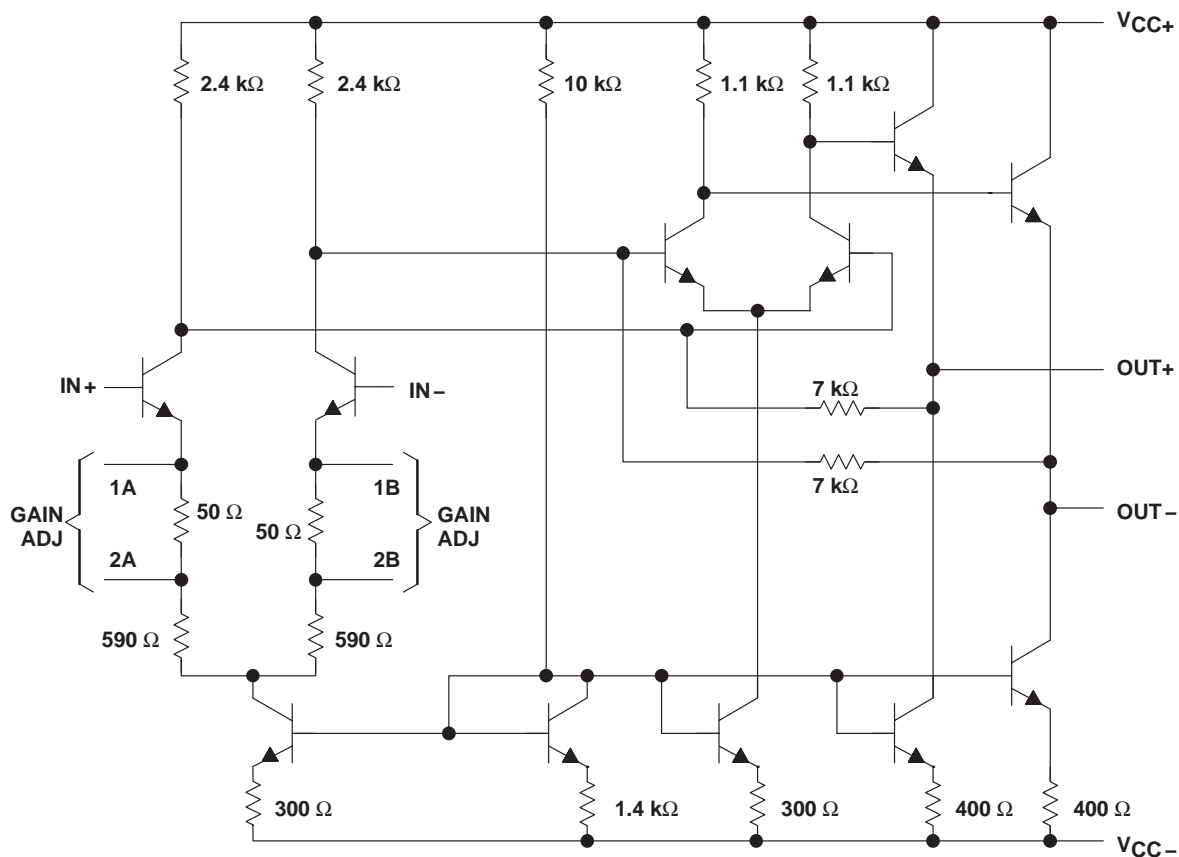
The μ A733M is obsolete
and no longer supplied.

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symbol



schematic



Component values shown are nominal.

The μ A733M is obsolete and no longer supplied.

μ A733C, μ A733M
DIFFERENTIAL VIDEO AMPLIFIERS

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absolute maximum ratings over operating free-air temperature range (unless otherwise noted)[†]

	μ A733C	μ A733M	UNIT	
Supply voltage V_{CC+} (see Note 1)	8	8	V	
Supply voltage V_{CC-} (see Note 1)	- 8	- 8	V	
Differential input voltage	± 5	± 5	V	
Common-mode input voltage	± 6	± 6	V	
Output current	10	10	mA	
Continuous total power dissipation	See Dissipation Rating Table			
Package thermal impedance, θ_{JA} (see Notes 2 and 3)	D package	86	°C/W	
	N package	80		
	NS package	76		
Maximum junction temperature, T_J	150		°C	
Lead temperature 1,6 mm (1/16 inch) from case for 60 seconds	J or U package		300	°C
Storage temperature range, T_{stg}	- 65 to 150	- 65 to 150	°C	

[†] Stresses beyond those listed under absolute maximum ratings may cause permanent damage to the device. This is a stress rating only, and functional operation of the device at these or any other conditions beyond those indicated in the recommended operating conditions section of this specification is not implied. Exposure to absolute-maximum-rated conditions for extended periods may affect device reliability.

- NOTES: 1. All voltage values, except differential input voltages, are with respect to the midpoint between V_{CC+} and V_{CC-} .
 2. Maximum power dissipation is a function of $T_J(\max)$, θ_{JA} , and T_A . The maximum allowable power dissipation at any allowable ambient temperature is $PD = (T_J(\max) - T_A)/\theta_{JA}$. Operating at the absolute maximum T_J of 150°C can affect reliability.
 3. The package thermal impedance is calculated in accordance with JESD 51-7.

DISSIPATION RATING TABLE

PACKAGE	$T_A \leq 25^\circ\text{C}$ POWER RATING	DERATING FACTOR	DERATE ABOVE T_A	$T_A = 70^\circ\text{C}$ POWER RATING	$T_A = 125^\circ\text{C}$ POWER RATING
J (μ A733M)	500 mW	11.0 mW/°C	104°C	500 mW	269 mW



μA733C, μA733M DIFFERENTIAL VIDEO AMPLIFIERS

The μA733M is obsolete
and no longer supplied.

SLFS027B – NOVEMBER 1970 – REVISED MAY 2004

electrical characteristics, $V_{CC\pm} = \pm 6\text{ V}$, $T_A = 25^\circ\text{C}$

PARAMETER	FIGURE	TEST CONDITIONS	GAIN OPTION†	μA733C			μA733M			UNIT
				MIN	TYP	MAX	MIN	TYP	MAX	
A _{VD}	1	V _{OD} = 1 V	1	250	400	600	300	400	500	V/V
			2	80	100	120	90	100	110	
			3	8	10	12	9	10	11	
BW	2	R _S = 50 Ω	1	50			50			MHz
			2	90			90			
			3	200			200			
I _{IO}			Any	0.4		5	0.4		3	μA
I _{IB}			Any	9		30	9		20	μA
V _{ICR}	1		Any	±1			±1			V
V _{OC}	1		Any	2.4	2.9	3.4	2.4	2.9	3.4	V
V _{OO}	1		1	0.6		1.5	0.6		1.5	V
			2 & 3	0.35		1.5	0.35		1	
V _{OPP}	1		Any	3		4.7	3		4.7	V
r _i	3	V _{OD} ≤ 1 V	1	4			4			kΩ
			2	10	24		20	24		
			3	250			250			
r _o				20			20			Ω
C _i	3	V _{OD} ≤ 1 V	2	2			2			pF
CMRR	4	V _{IC} = ±1 V, f ≤ 100 kHz	2	60	86		60	86		dB
		V _{IC} = ±1 V, f = 5 MHz	2	70			70			
k _{SVR}	1	ΔV _{CC±} = ±0.5 V	2	50	70		50	70		dB
V _n	5	BW = 1 kHz to 10 MHz	Any	12			12			μV
t _{pd}	2	R _S = 50 Ω, Output voltage step = 1 V	1	7.5			7.5			ns
			2	6.0	10		6.0	10		
			3	3.6			3.6			
t _r	2	R _S = 50 Ω, Output voltage step = 1 V	1	10.5			10.5			ns
			2	4.5	12		4.5	10		
			3	2.5			2.5			
I _{sink(max)}			Any	2.5	3.6		2.5	3.6		mA
I _{CC}		No load, No signal	Any	16		24	16		24	mA

† The gain option is selected as follows:

Gain Option 1: Gain-adjust pin 1A is connected to pin 1B, and pins 2A and 2B are open.

Gain Option 2: Gain-adjust pin 1A and pin 1B are open, pin 2A is connected to pin 2B.

Gain Option 3: All four gain-adjust pins are open.



The μ A733M is obsolete
and no longer supplied.

μ A733C, μ A733M
DIFFERENTIAL VIDEO AMPLIFIERS

SLFS027B – NOVEMBER 1970 – REVISED MAY 2004

electrical characteristics, $V_{CC\pm} = \pm 6$ V, $T_A = 0^\circ\text{C}$ to 70°C for μ A733C, -55°C to 125°C for μ A733M

PARAMETER	FIGURE	TEST CONDITIONS	GAIN OPTION†	μ A733C		μ A733M		UNIT	
				MIN	MAX	MIN	MAX		
A_{VD}	Large-signal differential voltage amplification	1	$V_{OD} = 1$ V	1	250	600	200	600	V/V
				2	80	120	80	120	
				3	8	12	8	12	
I_{IO}	Input offset current			Any		6		5	μ A
I_{IB}	Input bias current			Any		40		40	μ A
V_{ICR}	Common-mode input voltage range	1		Any	± 1		± 1		V
V_{OO}	Output offset voltage	1		1		1.5		1.5	V
				2 & 3		1.5		1.2	
V_{OPP}	Maximum peak-to-peak output voltage swing	1		Any	2.8		2.5		V
r_i	Input resistance	3	$V_{OD} \leq 1$ V	2	8		8		k Ω
CMRR	Common-mode rejection ratio	4	$V_{IC} = +1$ V, $f \leq 100$ kHz	2	50		50		dB
k_{SVR}	Supply voltage rejection ratio ($\Delta V_{CC}/\Delta V_{IO}$)	1	$\Delta V_{CC\pm} = \pm 0.5$ V	2	50		50		dB
$I_{sink(max)}$	Maximum output sink current			Any	2.5		2.2		mA
I_{CC}	Supply current		No load, No signal	Any		27		27	mA

† The gain option is selected as follows:

- Gain Option 1: Gain-adjust pin 1A is connected to pin 1B, and pins 2A and 2B are open.
- Gain Option 2: Gain-adjust pin 1A and pin 1B are open, pin 2A is connected to pin 2B.
- Gain Option 3: All four gain-adjust pins are open.

PARAMETER MEASUREMENT INFORMATION

test circuits

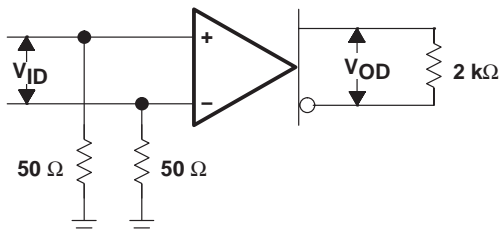


Figure 1

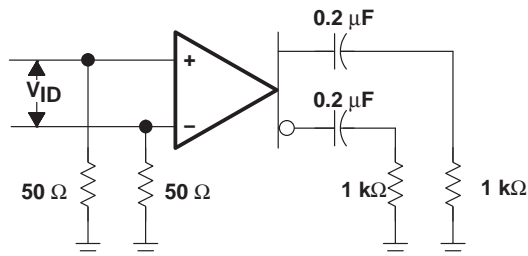


Figure 2

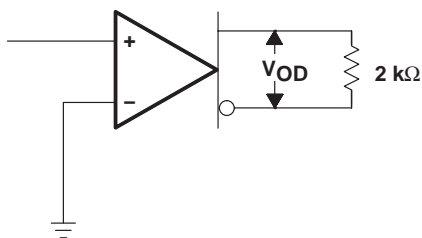


Figure 3

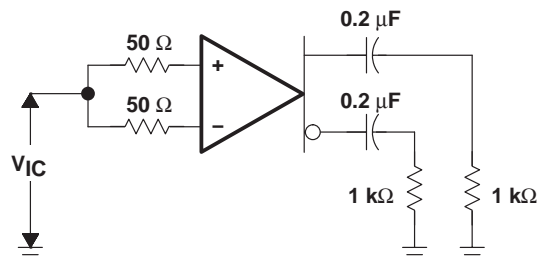


Figure 4

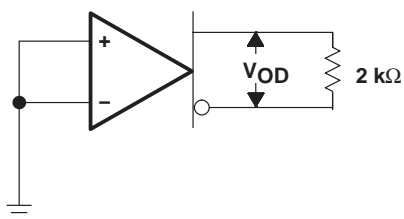
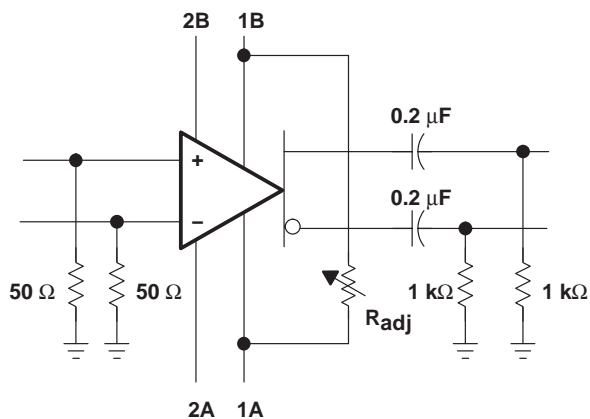


Figure 5



VOLTAGE AMPLIFICATION ADJUSTMENT

Figure 6

TYPICAL CHARACTERISTICS

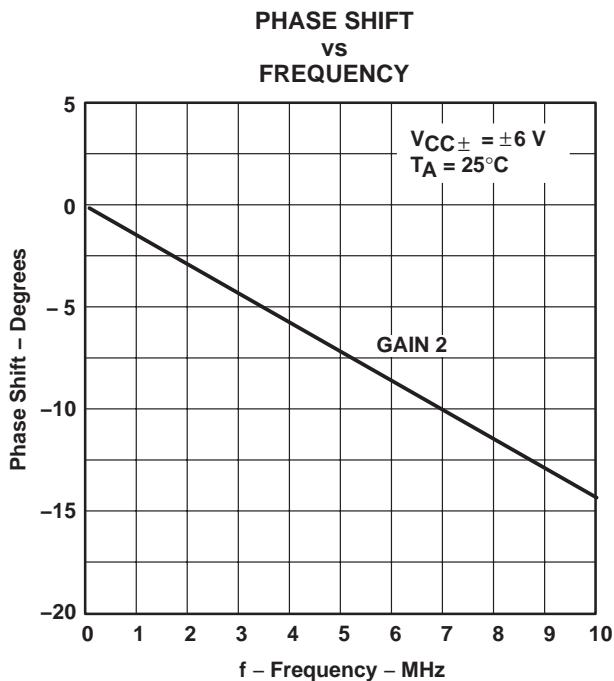


Figure 7

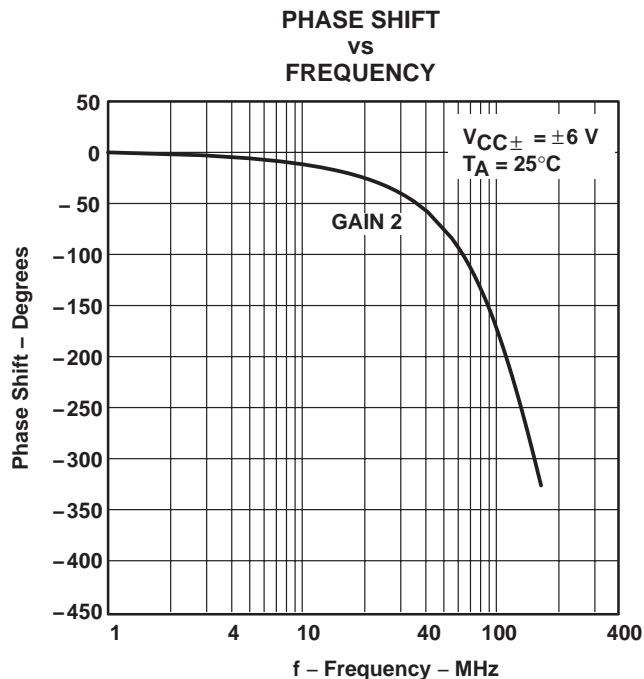


Figure 8

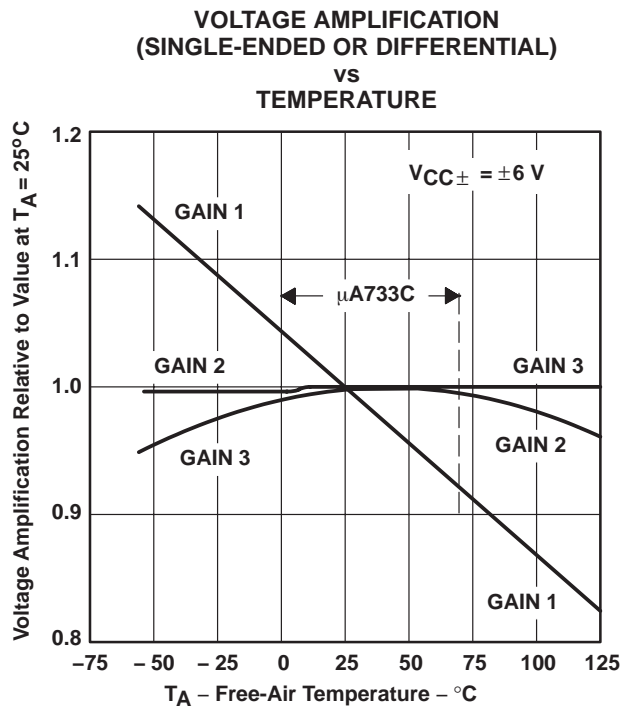


Figure 9

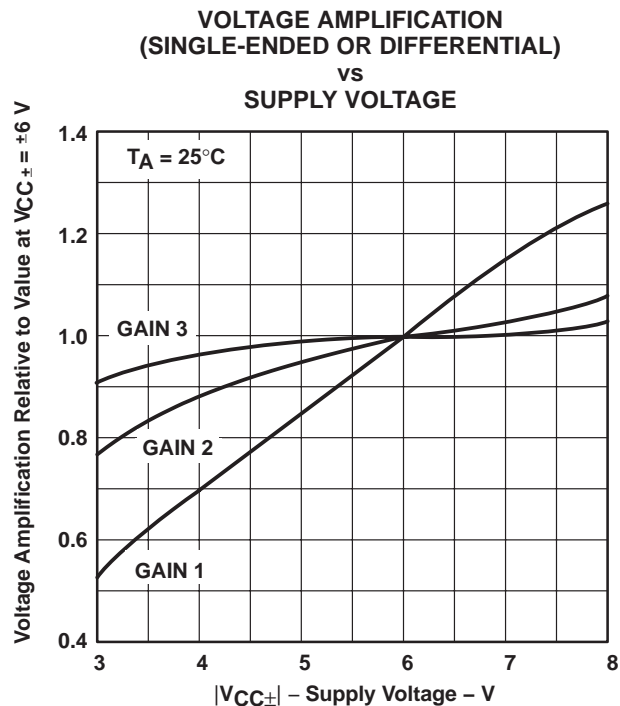


Figure 10

TYPICAL CHARACTERISTICS

**DIFFERENTIAL VOLTAGE AMPLIFICATION
 VS
 RESISTANCE BETWEEN G1A AND G1B**

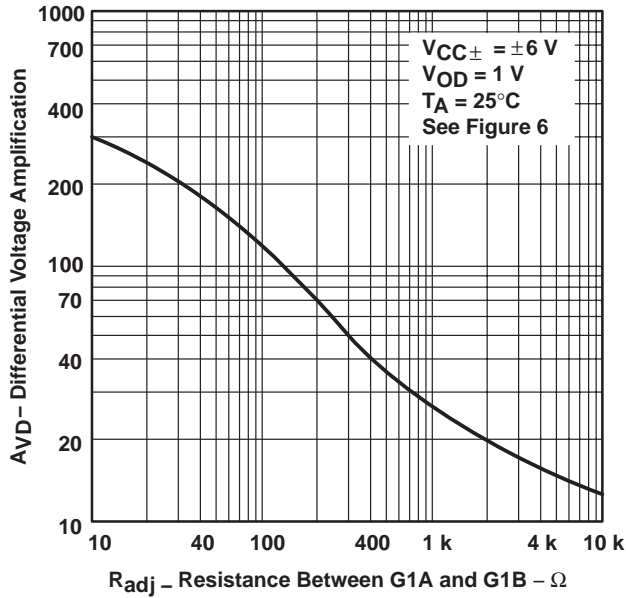


Figure 11

**SINGLE-ENDED VOLTAGE AMPLIFICATION
 VS
 FREQUENCY**

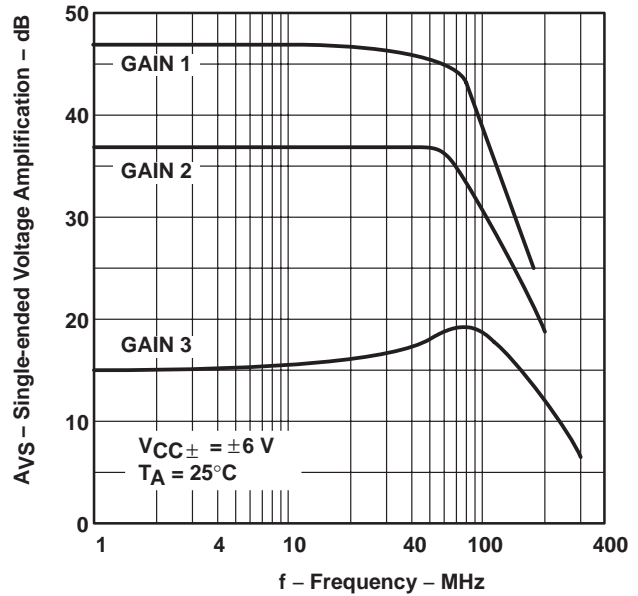


Figure 12

**SUPPLY CURRENT
 VS
 FREE-AIR TEMPERATURE**

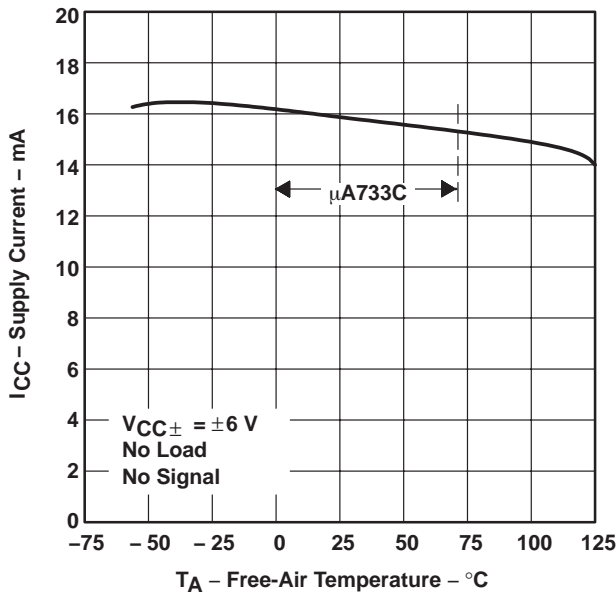


Figure 13

**SUPPLY CURRENT
 VS
 SUPPLY VOLTAGE**

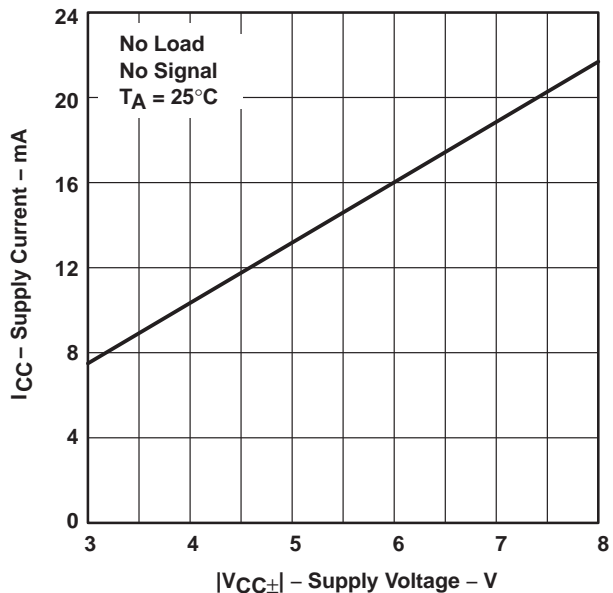


Figure 14

TYPICAL CHARACTERISTICS

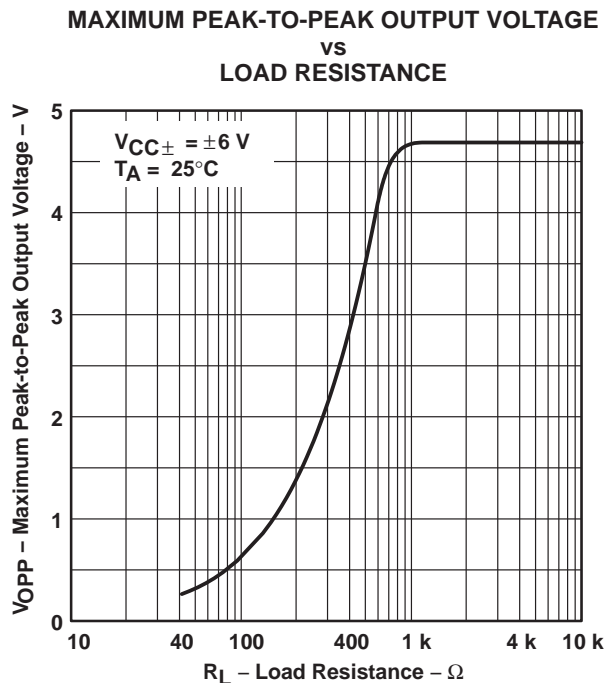


Figure 15

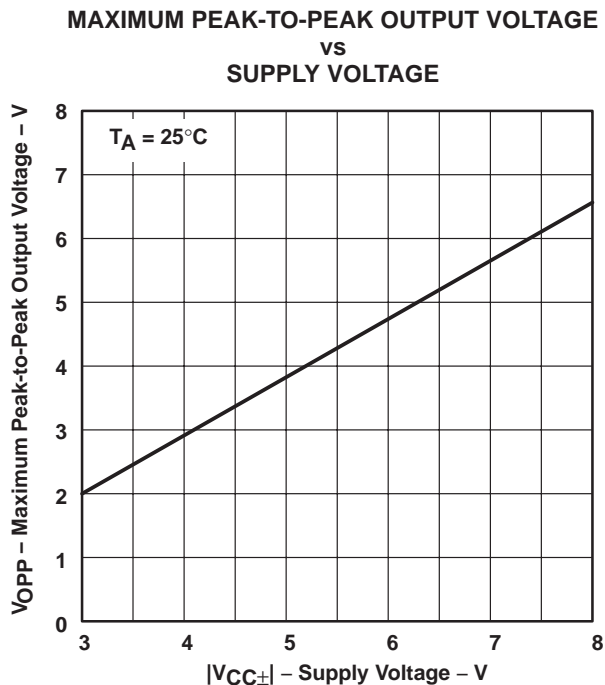


Figure 16

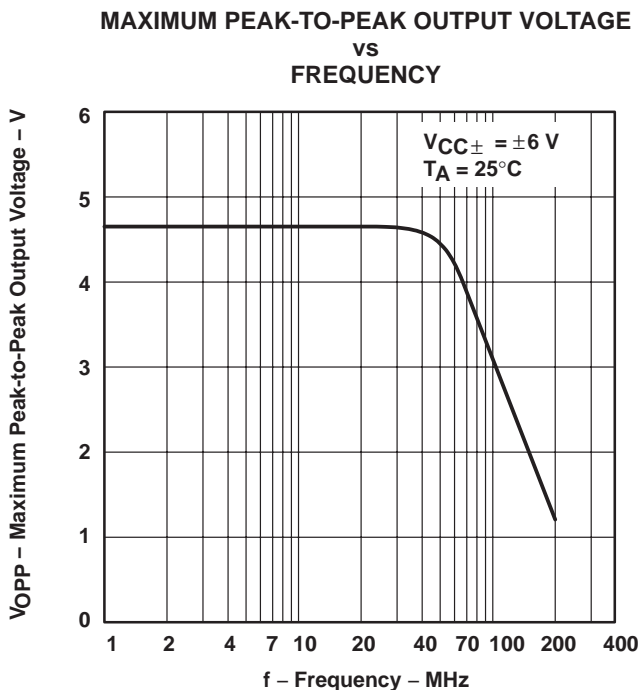


Figure 17

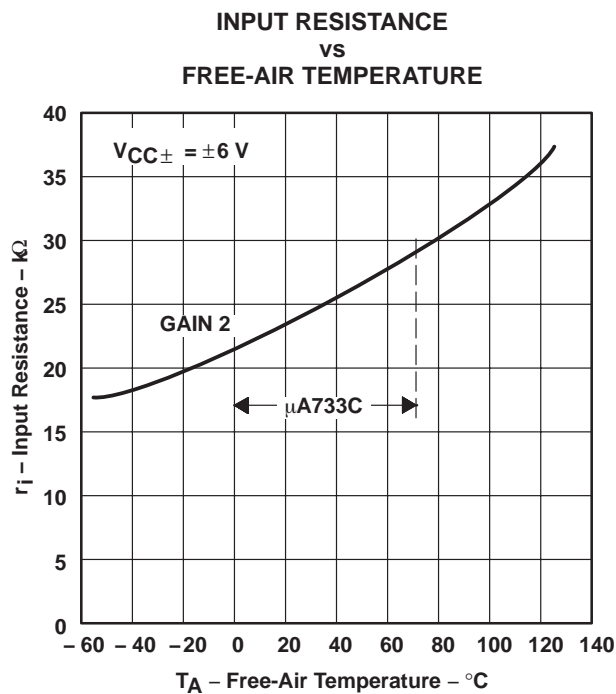


Figure 18

PACKAGING INFORMATION

Orderable Device	Status ⁽¹⁾	Package Type	Package Drawing	Pins	Package Qty	Eco Plan ⁽²⁾	Lead/Ball Finish	MSL Peak Temp ⁽³⁾
84185012A	OBSOLETE	LCCC	FK	20		TBD	Call TI	Call TI
UA733CD	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
UA733CDE4	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
UA733CDG4	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
UA733CDR	ACTIVE	SOIC	D	14	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
UA733CDRE4	ACTIVE	SOIC	D	14	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
UA733CDRG4	ACTIVE	SOIC	D	14	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
UA733CN	ACTIVE	PDIP	N	14	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type
UA733CNE4	ACTIVE	PDIP	N	14	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type
UA733CNSR	ACTIVE	SO	NS	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
UA733CNSRE4	ACTIVE	SO	NS	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
UA733CNSRG4	ACTIVE	SO	NS	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
UA733MJ	OBSOLETE	CDIP	J	14		TBD	Call TI	Call TI
UA733MJB	OBSOLETE	CDIP	J	14		TBD	Call TI	Call TI
UA733MUB	OBSOLETE	CFP	U	10		TBD	Call TI	Call TI

⁽¹⁾ The marketing status values are defined as follows:

ACTIVE: Product device recommended for new designs.

LIFEBUY: TI has announced that the device will be discontinued, and a lifetime-buy period is in effect.

NRND: Not recommended for new designs. Device is in production to support existing customers, but TI does not recommend using this part in a new design.

PREVIEW: Device has been announced but is not in production. Samples may or may not be available.

OBSOLETE: TI has discontinued the production of the device.

⁽²⁾ Eco Plan - The planned eco-friendly classification: Pb-Free (RoHS), Pb-Free (RoHS Exempt), or Green (RoHS & no Sb/Br) - please check <http://www.ti.com/productcontent> for the latest availability information and additional product content details.

TBD: The Pb-Free/Green conversion plan has not been defined.

Pb-Free (RoHS): TI's terms "Lead-Free" or "Pb-Free" mean semiconductor products that are compatible with the current RoHS requirements for all 6 substances, including the requirement that lead not exceed 0.1% by weight in homogeneous materials. Where designed to be soldered at high temperatures, TI Pb-Free products are suitable for use in specified lead-free processes.

Pb-Free (RoHS Exempt): This component has a RoHS exemption for either 1) lead-based flip-chip solder bumps used between the die and package, or 2) lead-based die adhesive used between the die and leadframe. The component is otherwise considered Pb-Free (RoHS compatible) as defined above.

Green (RoHS & no Sb/Br): TI defines "Green" to mean Pb-Free (RoHS compatible), and free of Bromine (Br) and Antimony (Sb) based flame retardants (Br or Sb do not exceed 0.1% by weight in homogeneous material)

⁽³⁾ MSL, Peak Temp. -- The Moisture Sensitivity Level rating according to the JEDEC industry standard classifications, and peak solder temperature.

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TAPE AND REEL INFORMATION
REEL DIMENSIONS

TAPE DIMENSIONS


A0	Dimension designed to accommodate the component width
B0	Dimension designed to accommodate the component length
K0	Dimension designed to accommodate the component thickness
W	Overall width of the carrier tape
P1	Pitch between successive cavity centers

TAPE AND REEL INFORMATION

*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Reel Diameter (mm)	Reel Width W1 (mm)	A0 (mm)	B0 (mm)	K0 (mm)	P1 (mm)	W (mm)	Pin1 Quadrant
UA733CDR	SOIC	D	14	2500	330.0	16.4	6.5	9.0	2.1	8.0	16.0	Q1
UA733CNSR	SO	NS	14	2000	330.0	16.4	8.2	10.5	2.5	12.0	16.0	Q1

TAPE AND REEL BOX DIMENSIONS



*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
UA733CDR	SOIC	D	14	2500	367.0	367.0	38.0
UA733CNSR	SO	NS	14	2000	367.0	367.0	38.0

J (R-GDIP-T**)

14 LEADS SHOWN

CERAMIC DUAL IN-LINE PACKAGE



DIM \ PINS **	14	16	18	20
A	0.300 (7,62) BSC	0.300 (7,62) BSC	0.300 (7,62) BSC	0.300 (7,62) BSC
B MAX	0.785 (19,94)	.840 (21,34)	0.960 (24,38)	1.060 (26,92)
B MIN	—	—	—	—
C MAX	0.300 (7,62)	0.300 (7,62)	0.310 (7,87)	0.300 (7,62)
C MIN	0.245 (6,22)	0.245 (6,22)	0.220 (5,59)	0.245 (6,22)

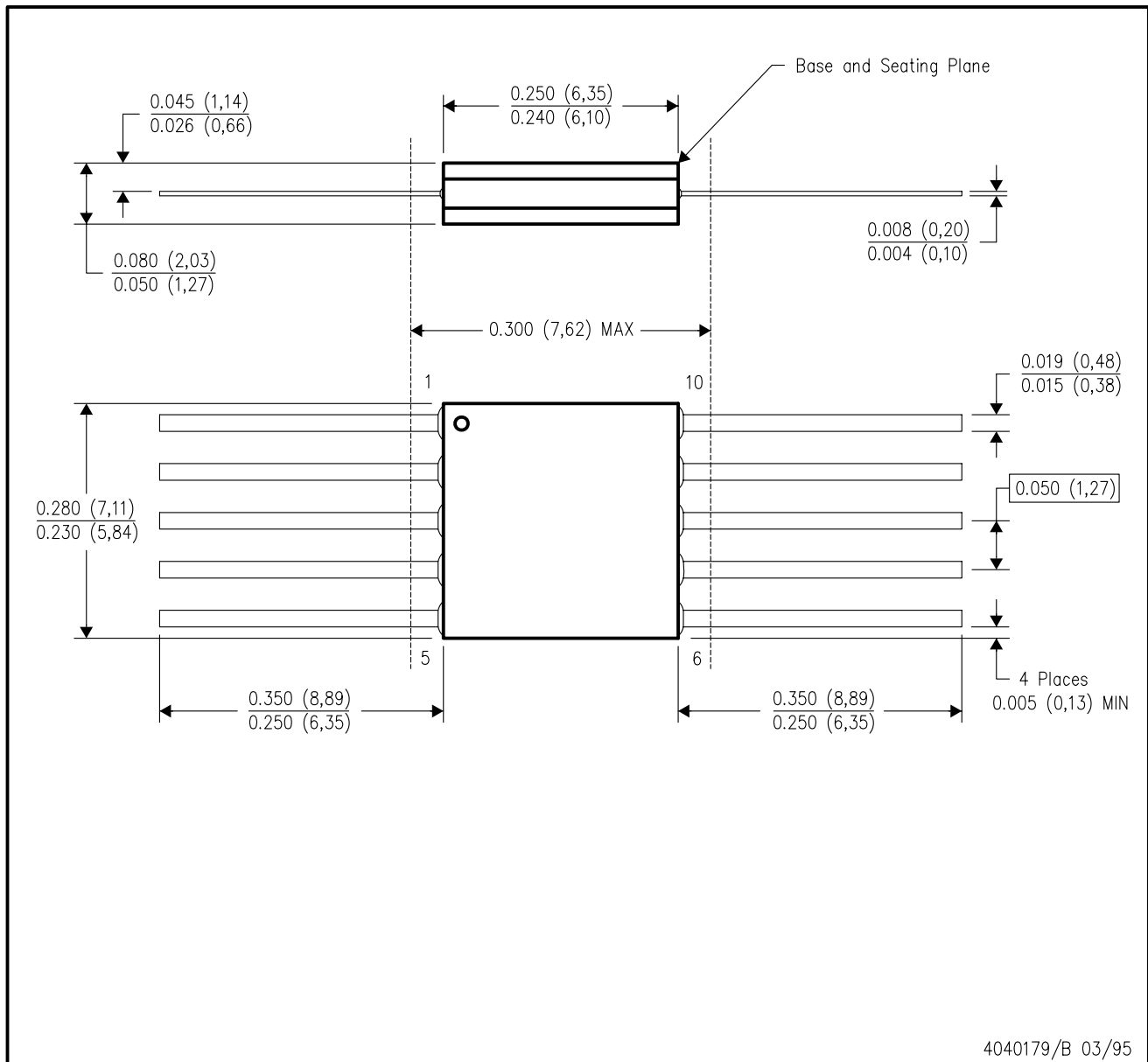


4040083/F 03/03

- NOTES:
- All linear dimensions are in inches (millimeters).
 - This drawing is subject to change without notice.
 - This package is hermetically sealed with a ceramic lid using glass frit.
 - Index point is provided on cap for terminal identification only on press ceramic glass frit seal only.
 - Falls within MIL STD 1835 GDIP1-T14, GDIP1-T16, GDIP1-T18 and GDIP1-T20.

U (S-GDFP-F10)

CERAMIC DUAL FLATPACK



- NOTES:
- A. All linear dimensions are in inches (millimeters).
 - B. This drawing is subject to change without notice.
 - C. This package can be hermetically sealed with a ceramic lid using glass frit.
 - D. Index point is provided on cap for terminal identification only.
 - E. Falls within MIL STD 1835 GDFP1-F10 and JEDEC MO-092AA

FK (S-CQCC-N**)

LEADLESS CERAMIC CHIP CARRIER

28 TERMINAL SHOWN



NO. OF TERMINALS **	A		B	
	MIN	MAX	MIN	MAX
20	0.342 (8,69)	0.358 (9,09)	0.307 (7,80)	0.358 (9,09)
28	0.442 (11,23)	0.458 (11,63)	0.406 (10,31)	0.458 (11,63)
44	0.640 (16,26)	0.660 (16,76)	0.495 (12,58)	0.560 (14,22)
52	0.740 (18,78)	0.761 (19,32)	0.495 (12,58)	0.560 (14,22)
68	0.938 (23,83)	0.962 (24,43)	0.850 (21,6)	0.858 (21,8)
84	1.141 (28,99)	1.165 (29,59)	1.047 (26,6)	1.063 (27,0)



4040140/D 01/11

- NOTES:
- All linear dimensions are in inches (millimeters).
 - This drawing is subject to change without notice.
 - This package can be hermetically sealed with a metal lid.
 - Falls within JEDEC MS-004

N (R-PDIP-T**)

PLASTIC DUAL-IN-LINE PACKAGE

16 PINS SHOWN





- NOTES:
- A. All linear dimensions are in inches (millimeters).
 - B. This drawing is subject to change without notice.
 - Falls within JEDEC MS-001, except 18 and 20 pin minimum body length (Dim A).
 - The 20 pin end lead shoulder width is a vendor option, either half or full width.

D (R-PDSO-G14)

PLASTIC SMALL OUTLINE



4040047-5/M 06/11

- NOTES:
- A. All linear dimensions are in inches (millimeters).
 - B. This drawing is subject to change without notice.
 -  Body length does not include mold flash, protrusions, or gate burrs. Mold flash, protrusions, or gate burrs shall not exceed 0.006 (0,15) each side.
 -  Body width does not include interlead flash. Interlead flash shall not exceed 0.017 (0,43) each side.
 - E. Reference JEDEC MS-012 variation AB.

D (R-PDSO-G14)

PLASTIC SMALL OUTLINE



4211283-3/E 08/12

- NOTES:
- A. All linear dimensions are in millimeters.
 - B. This drawing is subject to change without notice.
 - C. Publication IPC-7351 is recommended for alternate designs.
 - D. Laser cutting apertures with trapezoidal walls and also rounding corners will offer better paste release. Customers should contact their board assembly site for stencil design recommendations. Refer to IPC-7525 for other stencil recommendations.
 - E. Customers should contact their board fabrication site for solder mask tolerances between and around signal pads.

MECHANICAL DATA

NS (R-PDSO-G**)

PLASTIC SMALL-OUTLINE PACKAGE

14-PINS SHOWN



- NOTES:
- A. All linear dimensions are in millimeters.
 - B. This drawing is subject to change without notice.
 - C. Body dimensions do not include mold flash or protrusion, not to exceed 0,15.

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