- Short-Circuit Protection
- Offset-Voltage Null Capability
- Large Common-Mode and Differential Voltage Ranges
- No Frequency Compensation Required
- Low Power Consumption
- No Latch-Up
- Designed to Be Interchangeable With Fairchild uA741

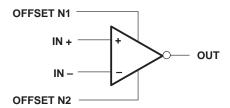
description

The μA741 is a general-purpose operational amplifier featuring offset-voltage null capability.

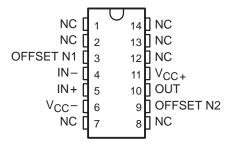
The high common-mode input voltage range and the absence of latch-up make the amplifier ideal for voltage-follower applications. The device is short-circuit protected and the internal frequency compensation ensures stability without external components. A low value potentiometer may be connected between the offset null inputs to null out the offset voltage as shown in Figure 2.

The μ A741C is characterized for operation from 0°C to 70°C. The μ A741I is characterized for operation from -40°C to 85°C.The μ A741M is characterized for operation over the full military temperature range of -55°C to 125°C.

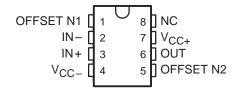
symbol



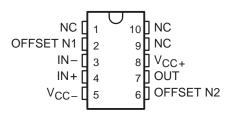
μΑ741M . . . J PACKAGE (TOP VIEW)



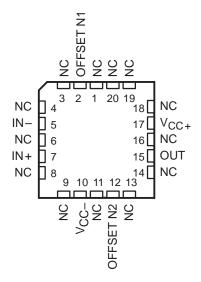
μΑ741M . . . JG PACKAGE μΑ741C, μΑ741I . . . D, P, OR PW PACKAGE (TOP VIEW)



μΑ741M . . . U PACKAGE (TOP VIEW)



μΑ741M . . . FK PACKAGE (TOP VIEW)



NC - No internal connection

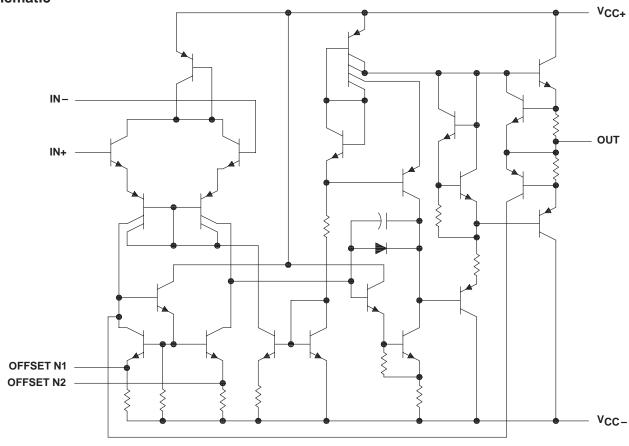


AVAILABLE OPTIONS

			PACKAGED DEVICES								
TA	SMALL OUTLINE (D)	CHIP CARRIER (FK)	CERAMIC DIP (J)	CERAMIC DIP (JG)	PLASTIC DIP (P)	TSSOP (PW)	FLAT PACK (U)	CHIP FORM (Y)			
0°C to 70°C	μΑ741CD				μΑ741CP	μΑ741CPW		μΑ741Υ			
-40°C to 85°C	μΑ741ID				μΑ741IP						
-55°C to 125°C		μΑ741MFK	μA741MJ	μΑ741MJG			μΑ741MU				

The D package is available taped and reeled. Add the suffix R (e.g., μ A741CDR).

schematic

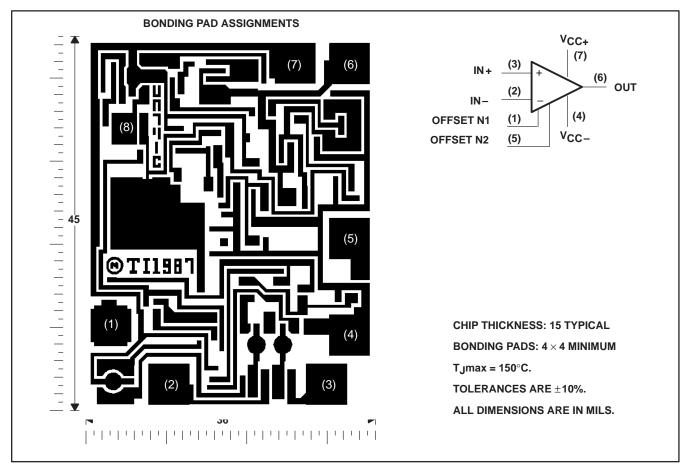


Component Count						
Transistors	22					
Resistors	11					
Diode	1					
Capacitor	1					



μΑ741Y chip information

This chip, when properly assembled, displays characteristics similar to the μ A741C. Thermal compression or ultrasonic bonding may be used on the doped-aluminum bonding pads. Chips may be mounted with conductive epoxy or a gold-silicon preform.



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

		μ Α741C	μ Α741 Ι	μ Α741Μ	UNIT
Supply voltage, V _{CC+} (see Note 1)		18	22	22	V
Supply voltage, V _{CC} (see Note 1)	-18	-22	-22	V	
Differential input voltage, V _{ID} (see Note 2)		±15	±30	±30	V
Input voltage, V _I any input (see Notes 1 and 3)		±15	±15	±15	V
Voltage between offset null (either OFFSET N1 or OFFSET N2) ar	±15	±0.5	±0.5	V	
Duration of output short circuit (see Note 4)		unlimited	unlimited	unlimited	
Continuous total power dissipation		See Dissipation Rating Table			
Operating free-air temperature range, TA		0 to 70	-40 to 85	-55 to 125	°C
Storage temperature range		-65 to 150	-65 to 150	-65 to 150	°C
Case temperature for 60 seconds			260	°C	
Lead temperature 1,6 mm (1/16 inch) from case for 60 seconds	J, JG, or U package			300	°C
Lead temperature 1,6 mm (1/16 inch) from case for 10 seconds	D, P, or PW package	260	260		°C

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

- NOTES: 1. All voltage values, unless otherwise noted, are with respect to the midpoint between VCC+ and VCC-.
 - 2. Differential voltages are at IN+ with respect to IN-.
 - 3. The magnitude of the input voltage must never exceed the magnitude of the supply voltage or 15 V, whichever is less.
 - 4. The output may be shorted to ground or either power supply. For the μA741M only, the unlimited duration of the short circuit applies at (or below) 125°C case temperature or 75°C free-air temperature.

DISSIPATION RATING TABLE

PACKAGE	T _A ≤ 25°C POWER RATING	DERATING FACTOR	DERATE ABOVE T _A	T _A = 70°C POWER RATING	T _A = 85°C POWER RATING	T _A = 125°C POWER RATING
D	500 mW	5.8 mW/°C	64°C	464 mW	377 mW	N/A
FK	500 mW	11.0 mW/°C	105°C	500 mW	500 mW	275 mW
J	500 mW	11.0 mW/°C	105°C	500 mW	500 mW	275 mW
JG	500 mW	8.4 mW/°C	90°C	500 mW	500 mW	210 mW
Р	500 mW	N/A	N/A	500 mW	500 mW	N/A
PW	525 mW	4.2 mW/°C	25°C	336 mW	N/A	N/A
U	500 mW	5.4 mW/°C	57°C	432 mW	351 mW	135 mW



electrical characteristics at specified free-air temperature, $V_{\text{CC}\pm}$ = ± 15 V (unless otherwise noted)

	PARAMETER	TEST	- +	ŀ	ι Α741C		μ Α74	1Ι, μ Α7	41M	UNIT	
	PARAMETER	CONDITIONS	T _A †	MIN	TYP	MAX	MIN	TYP	MAX	UNII	
VIO	Input offset voltage	V _O = 0	25°C		1	6		1	5	mV	
٧١٥	input onset voltage	VO = 0	Full range			7.5			6	111 V	
ΔV IO(adj)	Offset voltage adjust range	VO = 0	25°C		±15			±15		mV	
lio	Input offset current	V _O = 0	25°C		20	200		20	200	nA	
liO	input onset current	10-0	Full range			300			500	.,,	
l _{IB}	Input bias current	V _O = 0	25°C		80	500		80	500	nA	
ΊΒ	input bias current	10-0	Full range			800			1500	ПА	
VICR	Common-mode input		25°C	±12	±13		±12	±13		V	
VICK	voltage range		Full range	±12			±12			V	
		$R_L = 10 \text{ k}\Omega$	25°C	±12	±14		±12	±14			
VOM	Maximum peak output	$R_L \ge 10 \text{ k}\Omega$	Full range	±12			±12			V	
VOIVI	voltage swing	$R_L = 2 k\Omega$	25°C	±10	±13		±10	±13		V	
		$R_L \ge 2 k\Omega$	Full range	±10			±10				
Δ, τρ	Large-signal differential	$R_L \ge 2 k\Omega$	25°C	20	200		50	200		V/mV	
AVD	voltage amplification	V _O = ±10 V	Full range	15			25			V/IIIV	
rį	Input resistance		25°C	0.3	2		0.3	2		$M\Omega$	
r _O	Output resistance	$V_O = 0$, See Note 5	25°C		75			75		Ω	
Ci	Input capacitance		25°C		1.4			1.4		pF	
CMRR	Common-mode rejection	V _{IC} = V _{ICR} min	25°C	70	90		70	90		dB	
CIVILLIA	ratio	VIC - VICRIIIII	Full range	70			70			uБ	
kovo	Supply voltage sensitivity	V _{CC} = ±9 V to ±15 V	25°C		30	150		30	150	μV/V	
ksvs	(ΔVIO/ΔVCC)	ACC = ±9 A 10 ± 12 A	Full range			150			150	μν/ν	
los	Short-circuit output current		25°C		±25	±40		±25	±40	mA	
lcc	Supply current	$V_{O} = 0$, No load	25°C		1.7	2.8		1.7	2.8	mA	
-00	Cappiy current	10 - 0, 140 load	Full range			3.3			3.3	111/5	
PD	Total power dissipation	$V_{\Omega} = 0$, No load	25°C		50	85		50	85	mW	
ח. ו	rotal power alsolpation	1 0 - 0, No load	Full range			100			100	11100	

[†] All characteristics are measured under open-loop conditions with zero common-mode input voltage unless otherwise specified. Full range for the μ A741C is 0°C to 70°C, the μ A741I is -40°C to 85°C, and the μ A741M is -55°C to 125°C.

operating characteristics, $V_{CC\pm}$ = ± 15 V, T_A = $25^{\circ}C$

PARAMETER		TEST CO	TEST CONDITIONS				μ Α741Ι, μ Α741Μ			UNIT
	PARAMETER	TEST CONDITIONS MIN				MAX	MIN	TYP	MAX	UNIT
t _r	Rise time	$V_1 = 20 \text{ mV},$	$R_L = 2 k\Omega$,		0.3			0.3		μs
	Overshoot factor	$C_L = 100 pF$,	See Figure 1		5%			5%		
SR	Slew rate at unity gain	V _I = 10 V, C _L = 100 pF,	$R_L = 2 kΩ$, See Figure 1		0.5			0.5		V/μs



NOTE 5: This typical value applies only at frequencies above a few hundred hertz because of the effects of drift and thermal feedback.

electrical characteristics at specified free-air temperature, $V_{CC\pm}$ = ± 15 V, T_A = $25^{\circ}C$ (unless otherwise noted)

	DADAMETED	TEST CONDITIONS	ļ	ι Α741Υ		UNIT
	PARAMETER	TEST CONDITIONS	MIN	TYP	MAX	UNII
VIO	Input offset voltage	V _O = 0		1	6	mV
$\Delta V_{IO(adj)}$	Offset voltage adjust range	V _O = 0		±15		mV
I _{IO}	Input offset current	V _O = 0		20	200	nA
I _{IB}	Input bias current	V _O = 0		80	500	nA
VICR	Common-mode input voltage range		±12	±13		V
V	Maximum peak output valtage awing	R _L = 10 kΩ	±12	±14		V
VOM	Maximum peak output voltage swing	$R_L = 2 k\Omega$	±10	±13		V
A_{VD}	Large-signal differential voltage amplification	$R_L \ge 2 k\Omega$	20	200		V/mV
rį	Input resistance		0.3	2		МΩ
r _O	Output resistance	$V_O = 0$, See Note 5		75		Ω
Ci	Input capacitance			1.4		pF
CMRR	Common-mode rejection ratio	V _{IC} = V _{ICR} min	70	90		dB
ksvs	Supply voltage sensitivity ($\Delta V_{IO}/\Delta V_{CC}$)	$V_{CC} = \pm 9 \text{ V to } \pm 15 \text{ V}$		30	150	μV/V
los	Short-circuit output current			±25	±40	mA
Icc	Supply current	$V_O = 0$, No load		1.7	2.8	mA
PD	Total power dissipation	V _O = 0, No load		50	85	mW

[†] All characteristics are measured under open-loop conditions with zero common-mode voltage unless otherwise specified.

NOTE 5: This typical value applies only at frequencies above a few hundred hertz because of the effects of drift and thermal feedback.

operating characteristics, $V_{CC}\pm$ = ±15 V, T_A = 25°C

	PARAMETER	TEST CONDITIONS	μ	UNIT		
	PARAMETER	TEST CONDITIONS	MIN	TYP	MAX	ONT
t _r	Rise time	$V_{\parallel} = 20 \text{ mV}, R_{\perp} = 2 \text{ k}\Omega,$		0.3		μs
	Overshoot factor	C _L = 100 pF, See Figure 1		5%		
SR	Slew rate at unity gain	$V_{I} = 10 \text{ V}, \qquad R_{L} = 2 \text{ k}\Omega,$ $C_{L} = 100 \text{ pF}, \qquad \text{See Figure 1}$		0.5		V/µs



PARAMETER MEASUREMENT INFORMATION

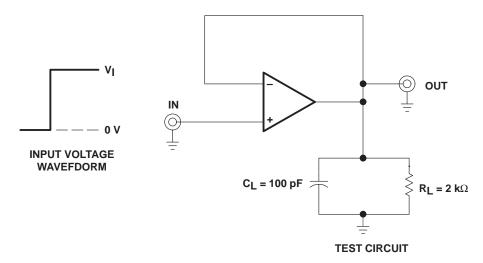


Figure 1. Rise Time, Overshoot, and Slew Rate

APPLICATION INFORMATION

Figure 2 shows a diagram for an input offset voltage null circuit.

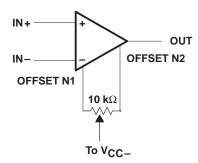
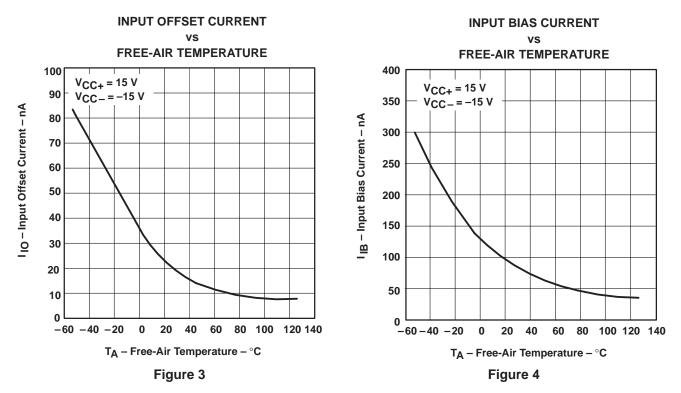
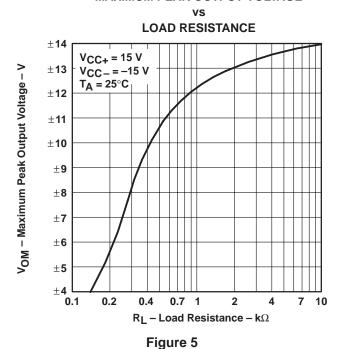


Figure 2. Input Offset Voltage Null Circuit

TYPICAL CHARACTERISTICS[†]



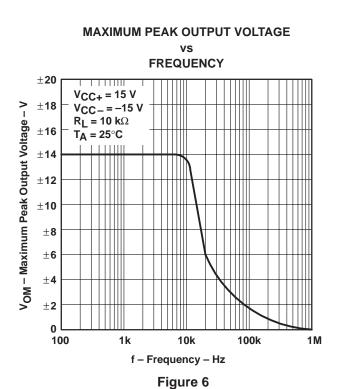
MAXIMUM PEAK OUTPUT VOLTAGE



[†] Data at high and low temperatures are applicable only within the rated operating free-air temperature ranges of the various devices.



TYPICAL CHARACTERISTICS



OPEN-LOOP SIGNAL DIFFERENTIAL VOLTAGE AMPLIFICATION vs SUPPLY VOLTAGE 400 V_O = ±10 V $R_L = 2 k\Omega$ T_A = 25°C A_{VD}- Open-Loop Signal Differential 200 Voltage Amplification - V/mV 100 40 20 10 2 0 4 6 8 10 12 14 16 18 20 V_{CC±} - Supply Voltage - V

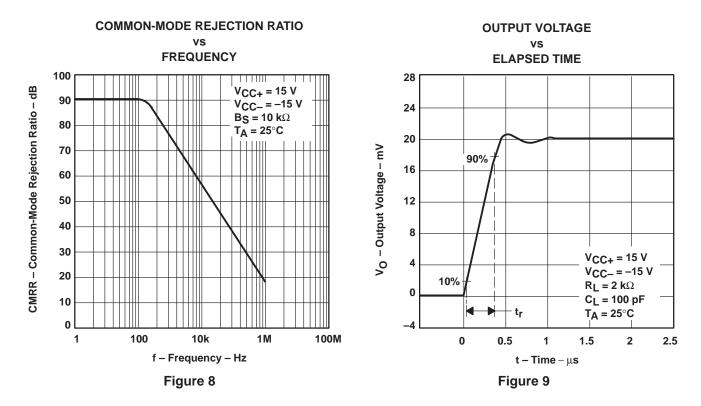
Figure 7

OPEN-LOOP LARGE-SIGNAL DIFFERENTIAL VOLTAGE AMPLIFICATION

vs **FREQUENCY** 110 $V_{CC+} = 15 V$ 100 V_{CC}-=-15 V 90 A_{VD} - Open-Loop Signal Differential $V_0 = \pm 10 \text{ V}$ $R_1 = 2 k\Omega$ 80 Voltage Amplification - dB TA = 25°C 70 60 50 40 30 20 10 0 -10 100 10k 100k 1M 10 1k 10M f - Frequency - Hz



TYPICAL CHARACTERISTICS



VOLTAGE-FOLLOWER LARGE-SIGNAL PULSE RESPONSE

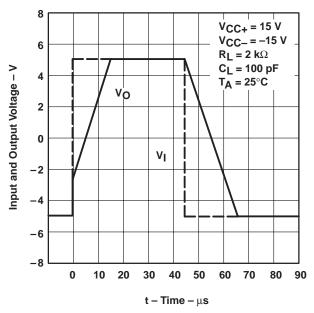




Figure 10





i.com 4-Jun-2007

PACKAGING INFORMATION

Orderable Device	Status ⁽¹⁾	Package Type	Package Drawing	Pins	Package Qty	e Eco Plan ⁽²⁾	Lead/Ball Finish	MSL Peak Temp ⁽³⁾
UA741CD	ACTIVE	SOIC	D	8	75	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
UA741CDE4	ACTIVE	SOIC	D	8	75	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
UA741CDG4	ACTIVE	SOIC	D	8	75	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
UA741CDR	ACTIVE	SOIC	D	8	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
UA741CDRE4	ACTIVE	SOIC	D	8	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
UA741CDRG4	ACTIVE	SOIC	D	8	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
UA741CJG	OBSOLETE	CDIP	JG	8		TBD	Call TI	Call TI
UA741CJG4	OBSOLETE	CDIP	JG	8		TBD	Call TI	Call TI
UA741CP	ACTIVE	PDIP	Р	8	50	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type
UA741CPE4	ACTIVE	PDIP	Р	8	50	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type
UA741CPSR	ACTIVE	SO	PS	8	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
UA741CPSRE4	ACTIVE	SO	PS	8	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
UA741CPSRG4	ACTIVE	SO	PS	8	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
UA741MFKB	OBSOLETE	LCCC	FK	20		TBD	Call TI	Call TI
UA741MJ	OBSOLETE	CDIP	J	14		TBD	Call TI	Call TI
UA741MJB	OBSOLETE	CDIP	J	14		TBD	Call TI	Call TI
UA741MJG	OBSOLETE	CDIP	JG	8		TBD	Call TI	Call TI
UA741MJGB	OBSOLETE	CDIP	JG	8		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.



PACKAGE OPTION ADDENDUM

4-Jun-2007

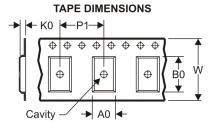
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TAPE AND REEL INFORMATION





	Dimension designed to accommodate the component width
В0	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

QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE



*All dimensions are nominal

Device	Package Type	Package Drawing			Reel Diameter (mm)	Reel Width W1 (mm)	A0 (mm)	B0 (mm)	K0 (mm)	P1 (mm)	W (mm)	Pin1 Quadrant
UA741CDR	SOIC	D	8	2500	330.0	12.4	6.4	5.2	2.1	8.0	12.0	Q1
UA741CPSR	SO	PS	8	2000	330.0	16.4	8.2	6.6	2.5	12.0	16.0	Q1





*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
UA741CDR	SOIC	D	8	2500	340.5	338.1	20.6
UA741CPSR	SO	PS	8	2000	346.0	346.0	33.0

JG (R-GDIP-T8)

CERAMIC DUAL-IN-LINE



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.
- E. Falls within MIL STD 1835 GDIP1-T8

14 LEADS SHOWN



NOTES:

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

FK (S-CQCC-N**)

28 TERMINAL SHOWN

LEADLESS CERAMIC CHIP CARRIER



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 metal lid.
- D. The terminals are gold plated.
- E. Falls within JEDEC MS-004



P (R-PDIP-T8)

PLASTIC DUAL-IN-LINE PACKAGE



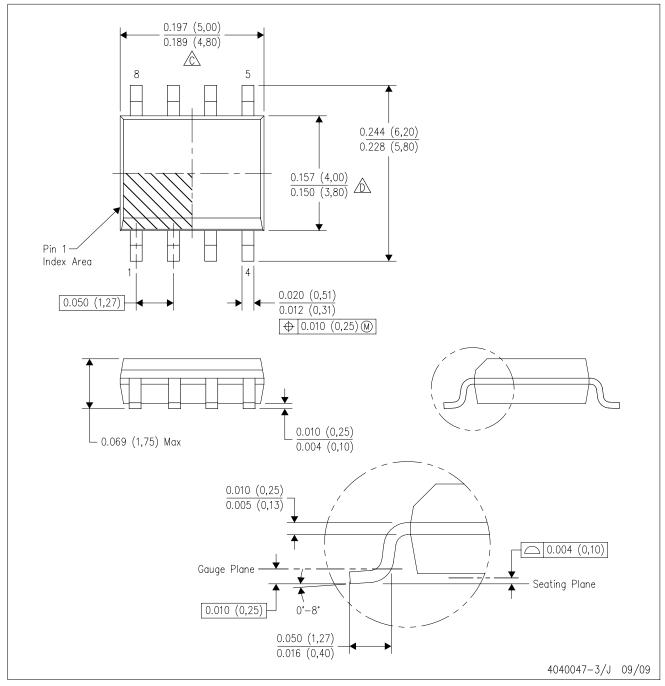
NOTES:

- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- C. Falls within JEDEC MS-001 variation BA.



D (R-PDSO-G8)

PLASTIC SMALL-OUTLINE PACKAGE



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 .006 (0,15) per end.
- Body width does not include interlead flash. Interlead flash shall not exceed .017 (0,43) per side.
- E. Reference JEDEC MS-012 variation AA.





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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