Data Sheet | May 3, 2007 | FN7332.6

700MHz Slew-Enhanced VFAs

The EL5104, EL5105, EL5204, EL5205, and EL5304 represent high speed voltage feedback amplifiers based on the current feedback amplifier architecture. This gives the typical high slew rate benefits of a CFA family along with the stability and ease of use associated with the VFA type architecture. This family is available in single, dual, and triple versions, with 200MHz, 400MHz, and 700MHz versions. This family operates on single 5V or ±5V supplies from minimum supply current. The EL5104 and EL5204 also feature an output enable function, which can be used to put the output in to a high-impedance mode. This enables the outputs of multiple amplifiers to be tied together for use in multiplexing applications.

Features

- Specified for 5V or ±5V applications
- Power-down to 17µA
- -3dB bandwidth = 700MHz
- ±0.1dB bandwidth = 45MHz
- Low supply current = 9.5mA
- Slew rate = 7000V/µs
- Low offset voltage = 10mV max
- Output current = 160mA
- A_{VOL} = 1400
- Diff gain/phase = 0.01%/0.02°
- Pb-free plus anneal available (RoHS compliant)

Applications

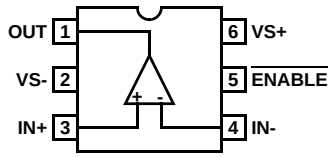
- Video amplifiers
- PCMCIA applications
- A/D drivers
- Line drivers
- Portable computers
- High speed communications
- RGB applications
- Broadcast equipment
- Active filtering

CAUTION: These devices are sensitive to electrostatic discharge; follow proper IC Handling Procedures.
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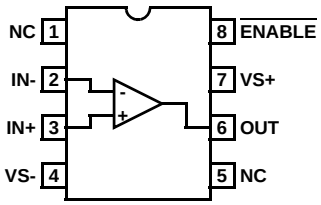
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Pinouts

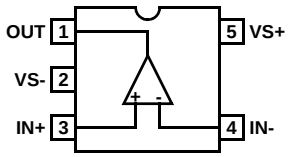
EL5104
(6 LD SOT-23)
TOP VIEW



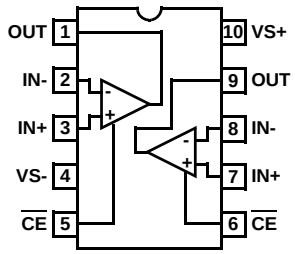
EL5104
(8 LD SOIC)
TOP VIEW



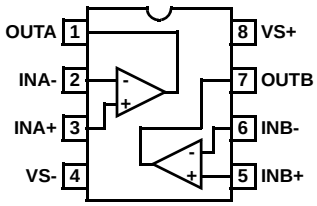
EL5105
(5 LD SOT-23, SC-70)
TOP VIEW



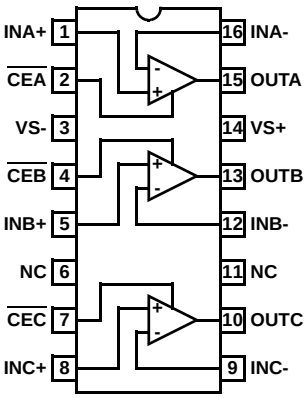
EL5204
(10 LD MSOP)
TOP VIEW



EL5205
(8 LD SOIC, MSOP)
TOP VIEW



EL5304
(16 LD QSOP)
TOP VIEW



Ordering Information

PART NUMBER	PART MARKING	TAPE & REEL	PACKAGE	PKG. DWG. #
EL5104IS	5104IS	-	8 Ld SOIC (150 mil)	MDP0027
EL5104IS-T7	5104IS	7”	8 Ld SOIC (150 mil)	MDP0027
EL5104IS-T13	5104IS	13”	8 Ld SOIC (150 mil)	MDP0027
EL5104ISZ (Note)	5104ISZ	-	8 Ld SOIC (150 mil) (Pb-Free)	MDP0027
EL5104ISZ-T7 (Note)	5104ISZ	7”	8 Ld SOIC (150 mil) (Pb-Free)	MDP0027
EL5104ISZ-T13 (Note)	5104ISZ	13”	8 Ld SOIC (150 mil) (Pb-Free)	MDP0027
EL5104IW-T7	n	7” (3k pcs)	6 Ld SOT-23	MDP0038
EL5104IW-T7A	n	7” (250 pcs)	6 Ld SOT-23	MDP0038
EL5104IWZ-T7 (Note)	BAEA	7” (3k pcs)	6 Ld SOT-23 (Pb-Free)	MDP0038
EL5104IWZ-T7A (Note)	BAEA	7” (250 pcs)	6 Ld SOT-23 (Pb-Free)	MDP0038
EL5105IC	C	-	5 Ld SC-70 (1.25mm)	P5.049
EL5105IC-T7	C	7” (3k pcs)	5 Ld SC-70 (1.25mm)	P5.049
EL5105IC-T7A	C	7” (250 pcs)	5 Ld SC-70 (1.25mm)	P5.049
EL5105IW-T7	f	7” (3k pcs)	5 Ld SOT-23	MDP0038
EL5105IW-T7A	f	7” (250 pcs)	5 Ld SOT-23	MDP0038
EL5105IWZ-T7 (Note)	BBMA	7” (3k pcs)	5 Ld SOT-23 (Pb-Free)	MDP0038

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Ordering Information (Continued)

PART NUMBER	PART MARKING	TAPE & REEL	PACKAGE	PKG. DWG. #
EL5105IWZ-T7A (Note)	BBMA	7” (250 pcs)	5 Ld SOT-23 (Pb-Free)	MDP0038
EL5204IY	BTAAA	-	10 Ld MSOP (3.0mm)	MDP0043
EL5204IY-T7	BTAAA	7”	10 Ld MSOP (3.0mm)	MDP0043
EL5204IY-T13	BTAAA	13”	10 Ld MSOP (3.0mm)	MDP0043
EL5204IYZ (Note)	BAAAF	-	10 Ld MSOP (3.0mm) (Pb-Free)	MDP0043
EL5204IYZ-T7 (Note)	BAAAF	7”	10 Ld MSOP (3.0mm) (Pb-Free)	MDP0043
EL5204IYZ-T13 (Note)	BAAAF	13”	10 Ld MSOP (3.0mm) (Pb-Free)	MDP0043
EL5205IS	5205IS	-	8 Ld SOIC (150 mil)	MDP0027
EL5205IS-T7	5205IS	7”	8 Ld SOIC (150 mil)	MDP0027
EL5205IS-T13	5205IS	13”	8 Ld SOIC (150 mil)	MDP0027
EL5205ISZ (Note)	5205ISZ	-	8 Ld SOIC (150 mil) (Pb-Free)	MDP0027
EL5205ISZ-T7 (Note)	5205ISZ	7”	8 Ld SOIC (150 mil) (Pb-Free)	MDP0027
EL5205ISZ-T13 (Note)	5205ISZ	13”	8 Ld SOIC (150 mil) (Pb-Free)	MDP0027
EL5205IY	BVAAA	-	8 Ld MSOP (3.0mm)	MDP0043
EL5205IY-T7	BVAAA	7”	8 Ld MSOP (3.0mm)	MDP0043
EL5205IY-T13	BVAAA	13”	8 Ld MSOP (3.0mm)	MDP0043
EL5205IYZ (Note)	BAAAG	-	8 Ld MSOP (3.0mm) (Pb-free)	MDP0043
EL5205IYZ-T7 (Note)	BAAAG	7”	8 Ld MSOP (3.0mm) (Pb-free)	MDP0043
EL5205IYZ-T13 (Note)	BAAAG	13”	8 Ld MSOP (3.0mm) (Pb-free)	MDP0043
EL5304IU	5304IU	-	16 Ld QSOP (150 mil)	MDP0040
EL5304IU-T7	5304IU	7”	16 Ld QSOP (150 mil)	MDP0040
EL5304IU-T13	5304IU	13”	16 Ld QSOP (150 mil)	MDP0040
EL5304IUZ (Note)	5304IUZ	-	16 Ld QSOP (150 mil) (Pb-Free)	MDP0040
EL5304IUZ-T7 (Note)	5304IUZ	7”	16 Ld QSOP (150 mil) (Pb-Free)	MDP0040
EL5304IUZ-T13 (Note)	5304IUZ	13”	16 Ld QSOP (150 mil) (Pb-Free)	MDP0040

NOTE: Intersil Pb-free plus anneal products employ special Pb-free material sets; molding compounds/die attach materials and 100% matte tin plate termination finish, which are RoHS compliant and compatible with both SnPb and Pb-free soldering operations. Intersil Pb-free products are MSL classified at Pb-free peak reflow temperatures that meet or exceed the Pb-free requirements of IPC/JEDEC J STD-020.

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Absolute Maximum Ratings (T_A = +25°C)

Supply Voltage between V_S+ and GND. 13.2V
Input Voltage . . . . . .±V_S
Differential Input Voltage . . . . . .±4V
Maximum Output Current. 80mA
V_S+ to V_S- Maximum Slew Rate 1V/µs

Thermal Information

Storage Temperature Range . . . . . .-65°C to +150°C
Ambient Operating Temperature Range . . . . . .-40°C to +85°C
Operating Junction Temperature . . . . . .+150°C
Pb-free reflow profile . . . . . .see link below
http://www.intersil.com/pbfree/Pb-FreeReflow.asp

CAUTION: Stresses above those listed in "Absolute Maximum Ratings" may cause permanent damage to the device. This is a stress only rating and operation of the device at these or any other conditions above those indicated in the operational sections of this specification is not implied.

IMPORTANT NOTE: All parameters having Min/Max specifications are guaranteed. Typical values are for information purposes only. Unless otherwise noted, all tests are at the specified temperature and are pulsed tests, therefore: $T_J = T_C = T_A$

DC Electrical Specifications

V_S = ±5V, GND = 0V, T_A = +25°C, V_{CM} = 0V, V_{OUT} = 0V, V_{ENABLE} = GND or OPEN, Unless Otherwise Specified.

PARAMETER	DESCRIPTION	CONDITIONS	MIN	TYP	MAX	UNIT
V_{OS}	Offset Voltage	EL5104, EL5105, EL5204, EL5205	-10	3	10	mV
		EL5304	-18	5	18	mV
TCV_{OS}	Offset Voltage Temperature Coefficient	Measured from T_{MIN} to T_{MAX}		10		µV/°C
IB	Input Bias Current	V_{IN} = 0V		8	30	µA
I_{OS}	Input Offset Current	V_{IN} = 0V		4	15	µA
TCI_{OS}	Input Bias Current Temperature Coefficient	Measured from T_{MIN} to T_{MAX}		50		nA/°C
PSRR	Power Supply Rejection Ratio		60	70		dB
CMRR	Common Mode Rejection Ratio	V_{CM} from -3V to +3V	56	62		dB
CMIR	Common Mode Input Range	Guaranteed by CMRR test	-3		+3	V
R_{IN}	Input Resistance	Common mode	50	120		kΩ
C_{IN}	Input Capacitance	SO package		1		pF
$I_{S,ON}$	Supply Current - Enabled	Per amplifier	8.5	9.5	11	mA
$I_{S,OFF}$	Supply Current - Shut Down	V_S+, per amplifier	+1	0	+25	µA
		V_S-, per amplifier	-25	17	-1	µA
PSOR	Power Supply Operating Range		4		13.2	V
AVOL	Open Loop Gain	R_L = 1kΩ to GND	55	65		dB
		R_L = 150Ω to GND		60		dB
V_{OP}	Positive Output Voltage Swing	R_L = 150Ω to 0V	3.6	3.8		V
V_{ON}	Negative Output Voltage Swing	R_L = 150Ω to 0V		-3.8	-3.6	V
I_{OUT}	Output Current	R_L = 10Ω to 0V	±90	±160		mA
V_{IH-EN}	ENABLE Pin Voltage for Power Up		(V_S+) -5		(V_S+) -3	V
V_{IL-EN}	ENABLE Pin Voltage for Shut Down		(V_S+) -1		V_S+	V

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Closed Loop AC Electrical Specifications

V_S = +5V, GND = 0V, T_A = +25°C, V_{CM} = +1.5V, V_{OUT} = +1.5V, V_{CLAMP} = +5V, V_{ENABLE} = 0V, A_V = +1, R_F = 0Ω, R_L = 150Ω to GND pin, unless otherwise specified.

PARAMETER	DESCRIPTION	CONDITIONS	MIN	TYP	MAX	UNIT
BW	-3dB Bandwidth (V_{OUT} = 200mV_{P-P})	V_S = ±5V, A_V = 1, R_F = 0Ω		700		MHz
SR	Slew Rate	R_L = 100Ω, V_{OUT} = -3V to +3V	2000	3000	7000	V/µs
t_R, t_F	Rise Time, Fall Time	±0.1V step		0.4		ns
OS	Overshoot	±0.1V step		10		%
t_{PD}	Propagation Delay	±0.1V step		0.4		ns
t_S	0.1% Settling Time	V_S = ±5V, R_L = 500Ω, A_V = 1, V_{OUT} = ±2.5V		7		ns
dG	Differential Gain	A_V = 2, R_L = 150Ω, V_{INDC} = -1 to +1V		0.01		%
dP	Differential Phase	A_V = 2, R_L = 150Ω, V_{INDC} = -1 to +1V		0.02		°
e_N	Input Noise Voltage	f = 10kHz		10		nV/√Hz
i_N	Input Noise Current	f = 10kHz		54		pA/√Hz
t_{DIS}	Disable Time			180		ns
t_{EN}	Enable Time			650		ns
I_{EN}	Enable Pin Current	Enabled, V_{EN} = 0V	-1		1	µA
		Disabled, V_{EN} = 5V	1		25	µA

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Typical Performance Curves

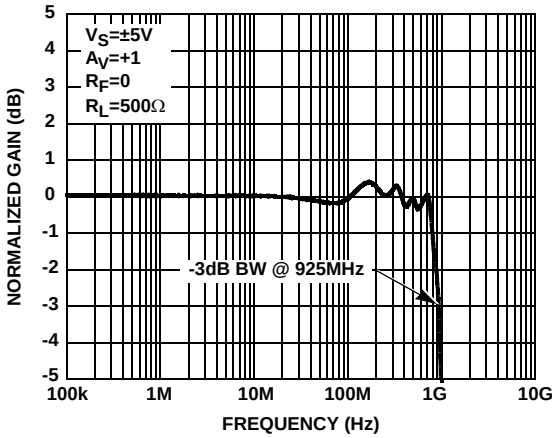


FIGURE 1. GAIN vs FREQUENCY (-3dB BANDWIDTH)

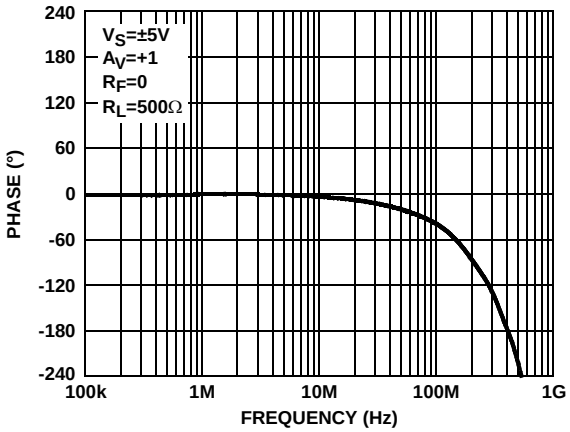


FIGURE 2. PHASE vs FREQUENCY

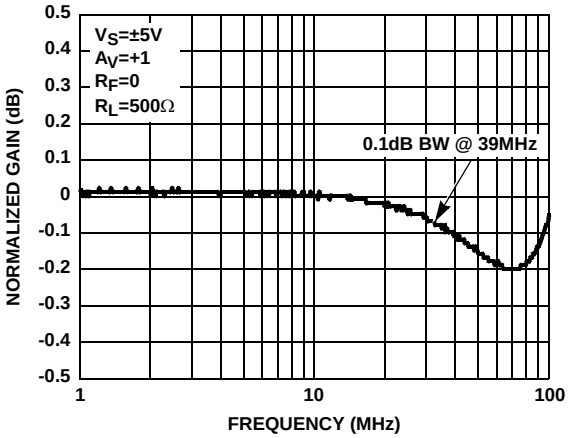


FIGURE 3. 0.1dB BANDWIDTH

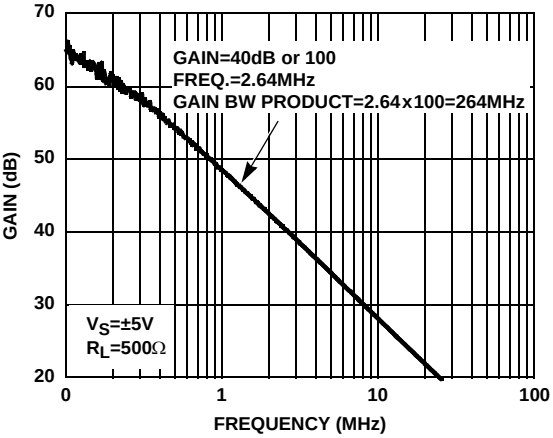


FIGURE 4. GAIN BANDWIDTH PRODUCT

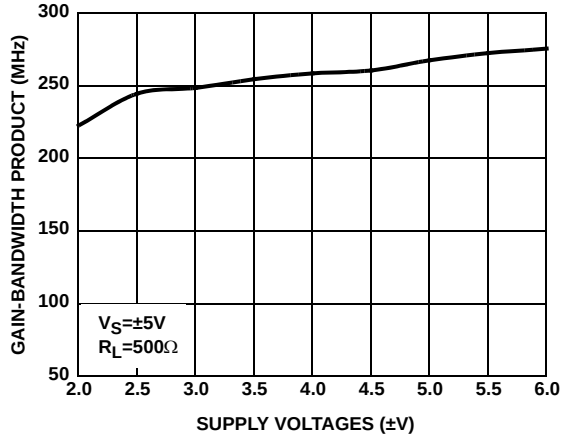


FIGURE 5. GAIN BANDWIDTH PRODUCT vs SUPPLY VOLTAGES

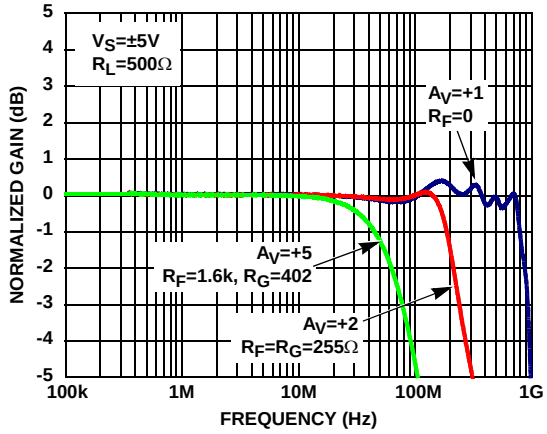


FIGURE 6. GAIN vs FREQUENCY FOR VARIOUS $+A_V$

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Typical Performance Curves (Continued)

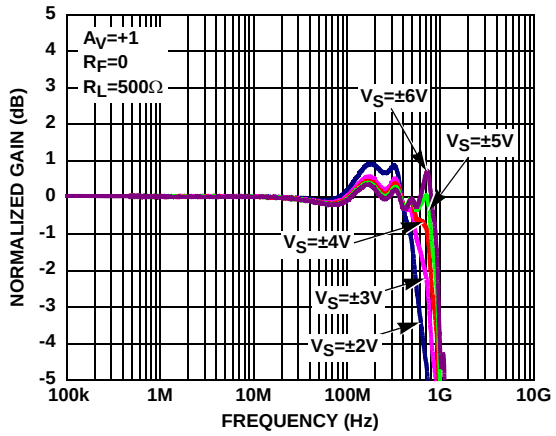


FIGURE 7. GAIN vs FREQUENCY FOR VARIOUS ±Vs

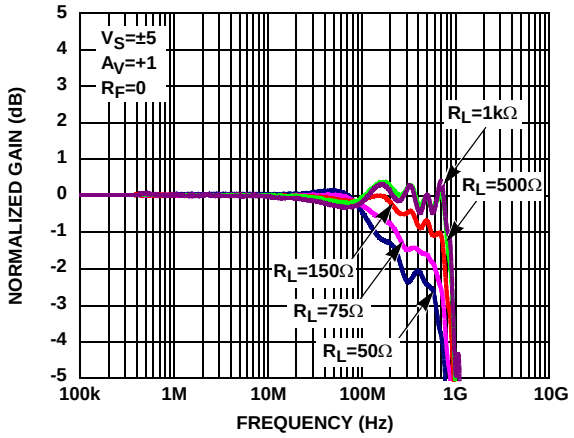


FIGURE 8. GAIN vs FREQUENCY FOR VARIOUS R_L (A_V=+1)

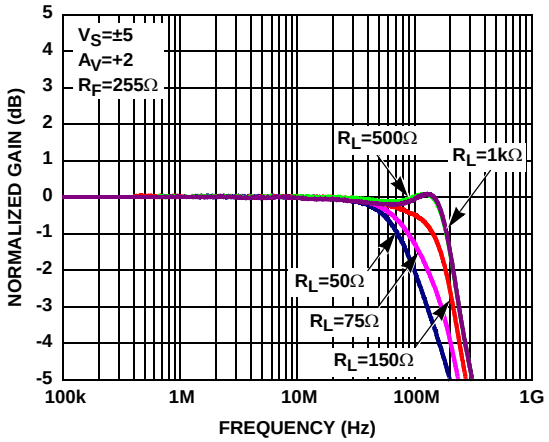


FIGURE 9. GAIN vs FREQUENCY FOR VARIOUS R_L (A_V=+2)

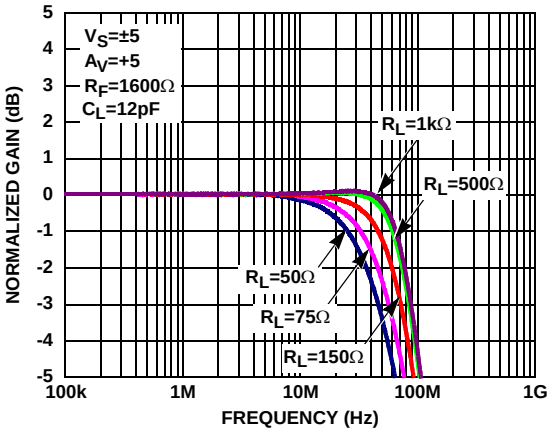


FIGURE 10. GAIN vs FREQUENCY FOR VARIOUS R_L (A_V=+5)

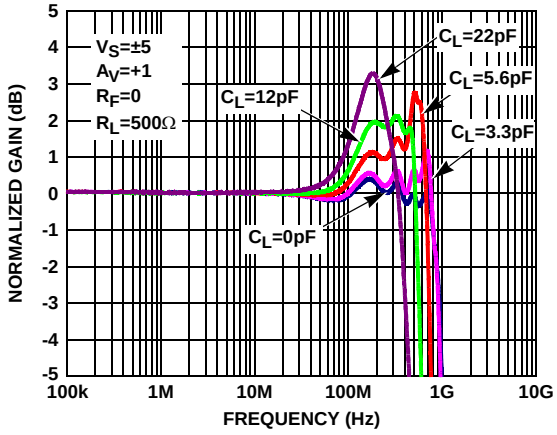


FIGURE 11. GAIN vs FREQUENCY FOR VARIOUS C_L (A_V=+1)

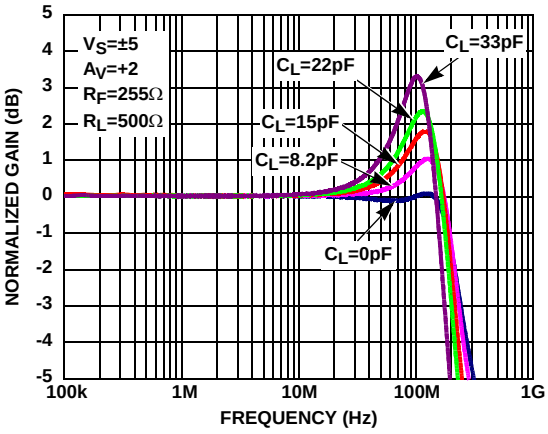


FIGURE 12. GAIN vs FREQUENCY FOR VARIOUS C_L (A_V=+2)

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Typical Performance Curves (Continued)

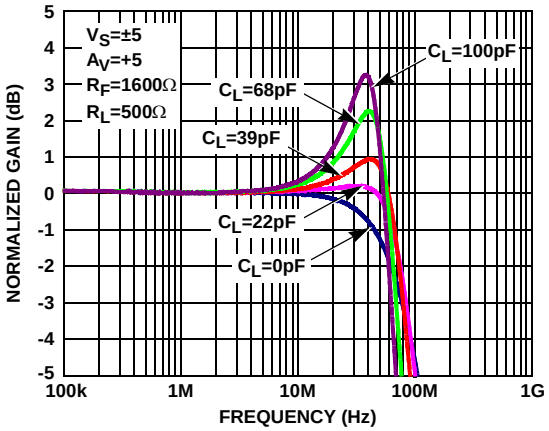


FIGURE 13. GAIN vs FREQUENCY FOR VARIOUS C_L (A_V=+5)

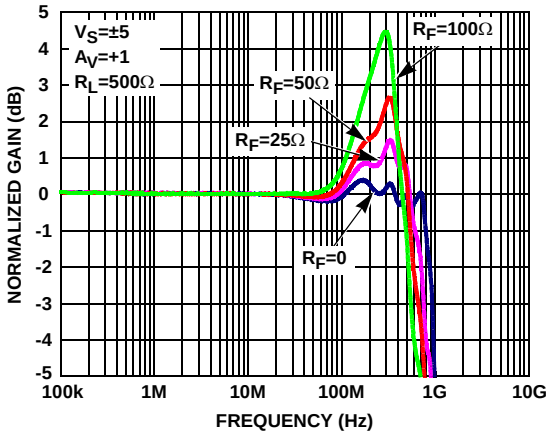


FIGURE 14. GAIN vs FREQUENCY FOR VARIOUS R_F (A_V=+1)

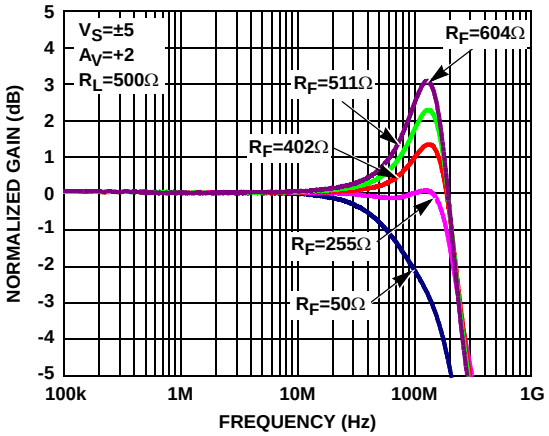


FIGURE 15. GAIN vs FREQUENCY FOR VARIOUS R_F (A_V = +2)

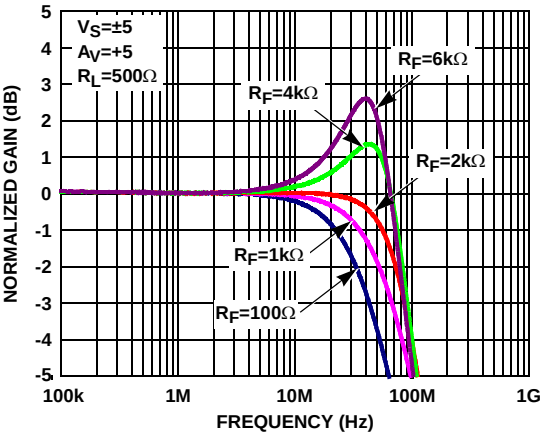


FIGURE 16. GAIN vs FREQUENCY FOR VARIOUS R_F (A_V = +5)

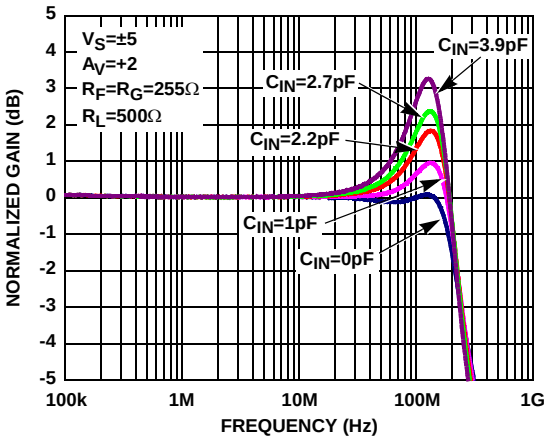


FIGURE 17. GAIN vs FREQUENCY FOR VARIOUS $C_{IN(-)}$ (A_V = +2)

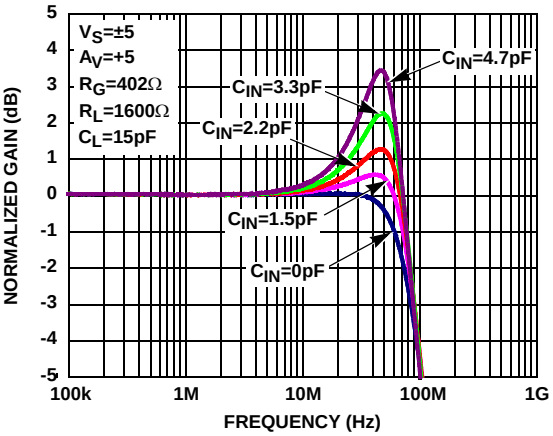


FIGURE 18. GAIN vs FREQUENCY FOR VARIOUS $C_{IN(-)}$ (A_V = +5)

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Typical Performance Curves (Continued)

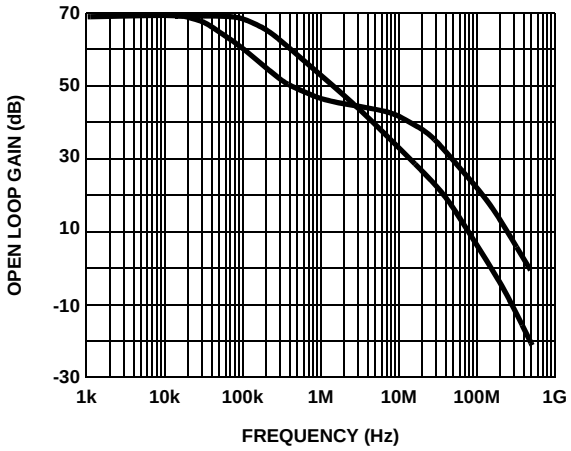


FIGURE 19. OPEN LOOP GAIN AND PHASE vs FREQUENCY

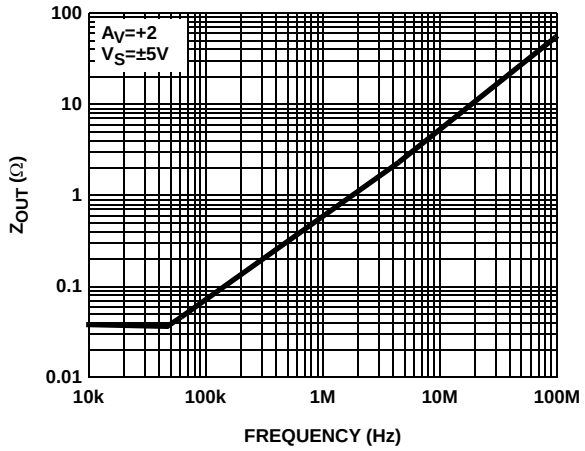


FIGURE 20. Z_{OUT} vs FREQUENCY

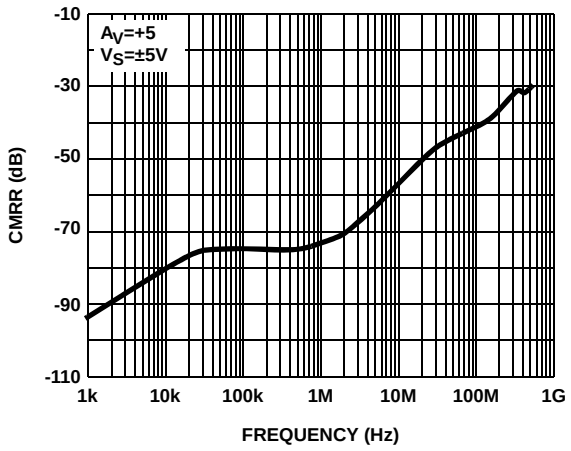


FIGURE 21. CMRR vs FREQUENCY

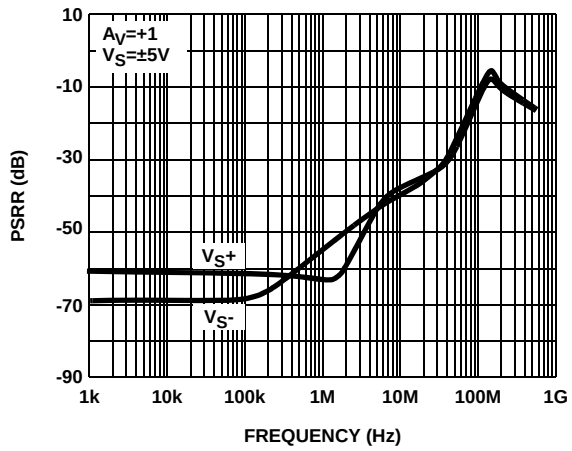


FIGURE 22. PSRR vs FREQUENCY

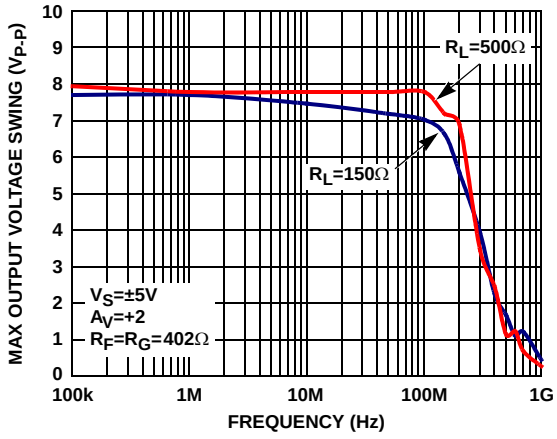


FIGURE 23. MAX OUTPUT VOLTAGE SWING vs FREQUENCY

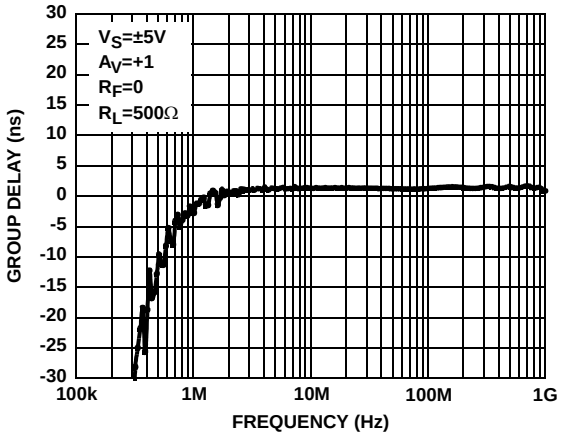


FIGURE 24. GROUP DELAY vs FREQUENCY

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Typical Performance Curves (Continued)

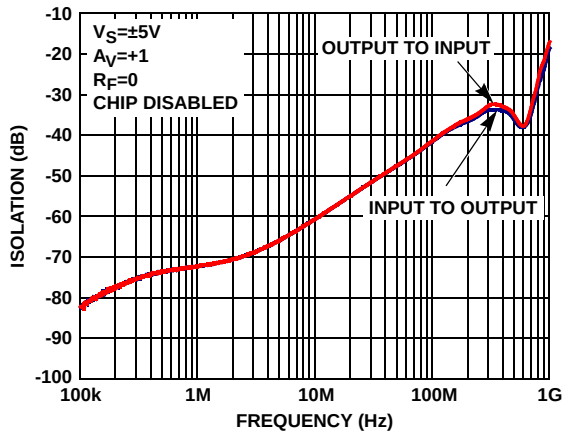


FIGURE 25. INPUT AND OUTPUT ISOLATION

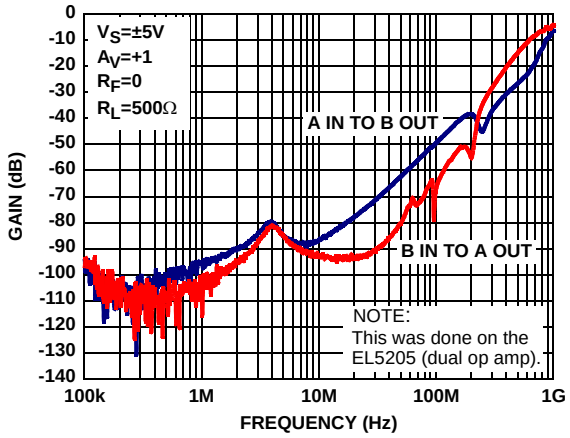


FIGURE 26. CHANNEL TO CHANNEL ISOLATION

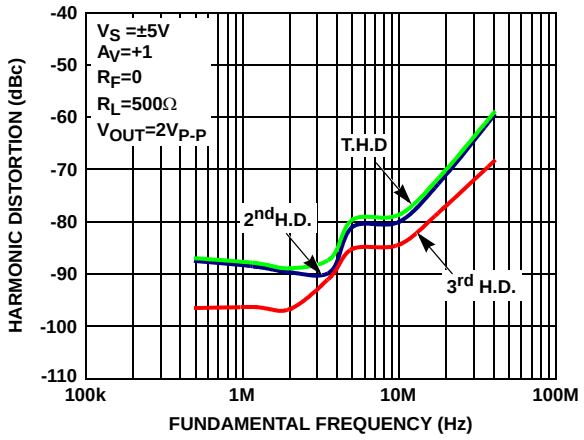


FIGURE 27. HARMONIC DISTORTION vs FREQUENCY

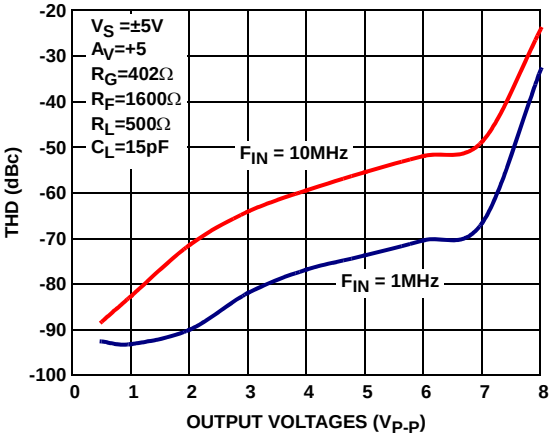


FIGURE 28. TOTAL HARMONIC DISTORTION vs OUTPUT VOLTAGES

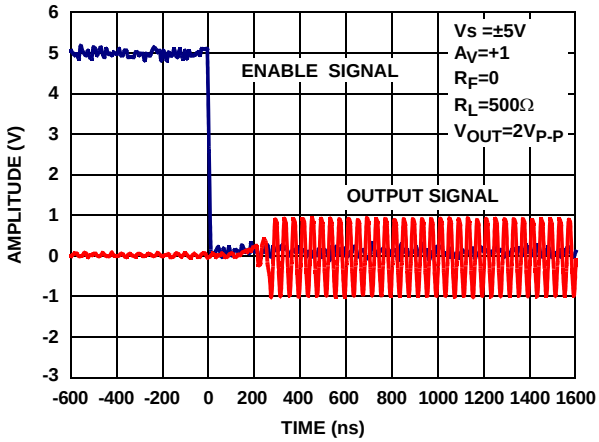


FIGURE 29. TURN-ON TIME

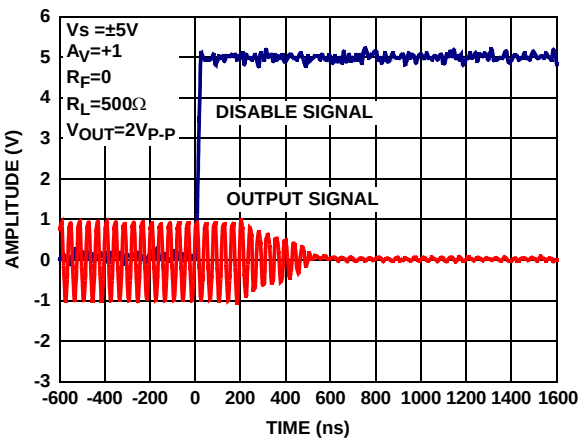


FIGURE 30. TURN-OFF TIME

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Typical Performance Curves (Continued)

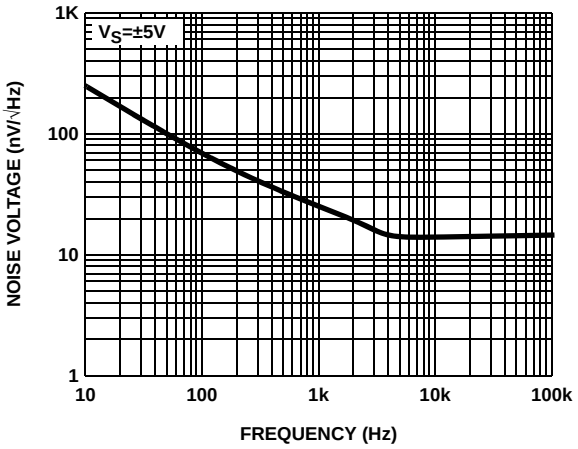


FIGURE 31. EQUIVALENT NOISE VOLTAGE vs FREQUENCY

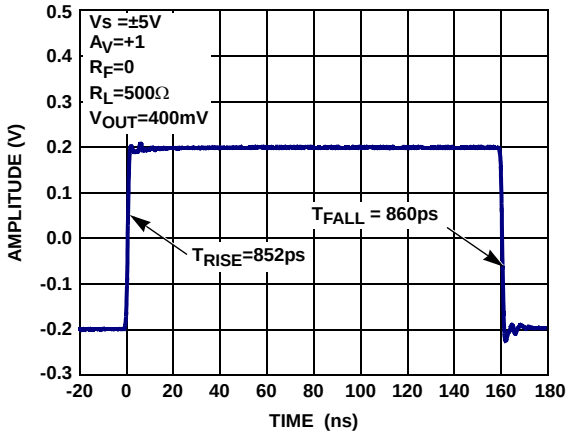


FIGURE 32. SMALL SIGNAL STEP RESPONSE_RISE & FALL TIME

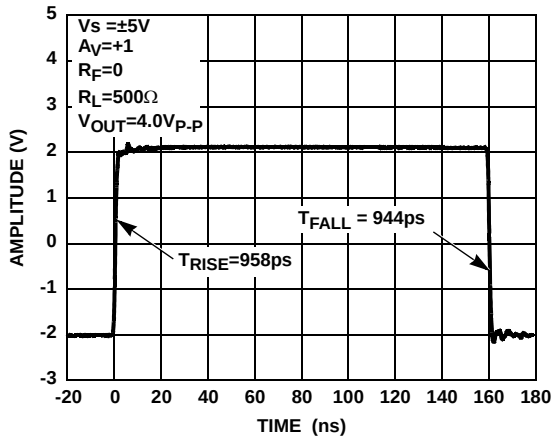


FIGURE 33. LARGE SIGNAL STEP RESPONSE_RISE & FALL TIME

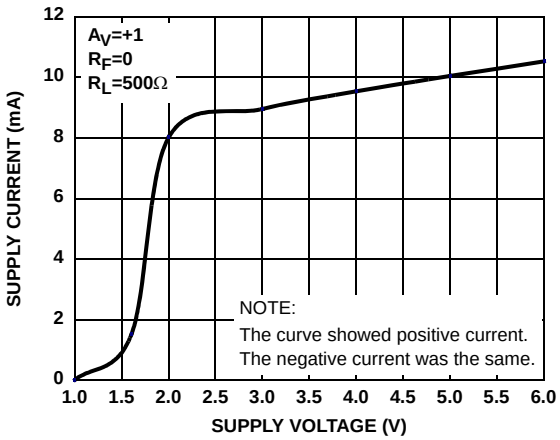


FIGURE 34. SUPPLY CURRENT vs SUPPLY VOLTAGE

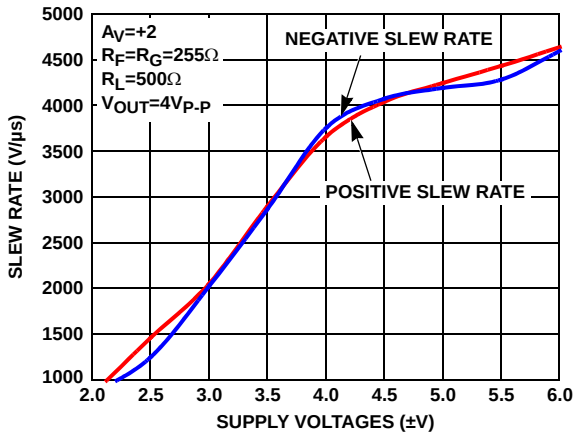


FIGURE 35. SLEW RATE vs SUPPLY VOLTAGES

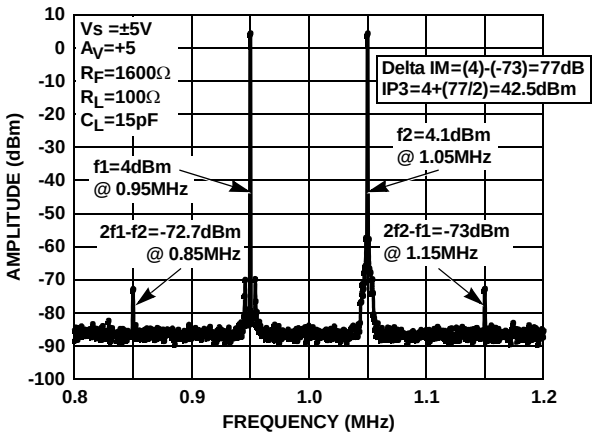


FIGURE 36. THIRD ORDER IMD INTERCEPT (IP3)

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Typical Performance Curves (Continued)

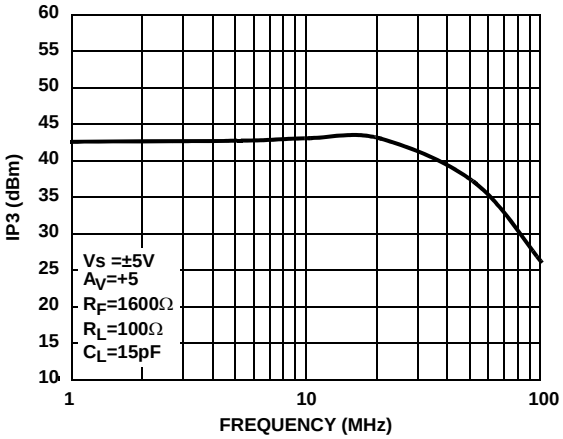


FIGURE 37. THIRD ORDER IMD INTERCEPT vs FREQUENCY

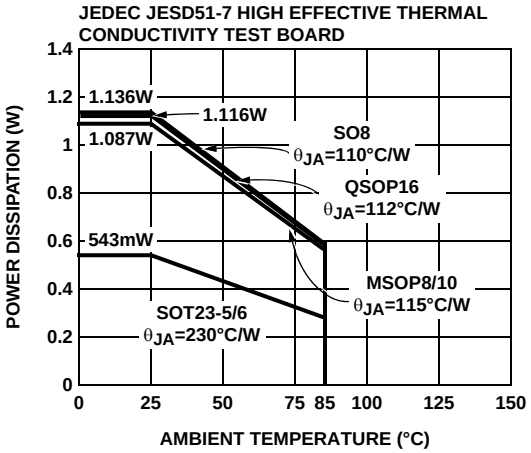


FIGURE 38. PACKAGE POWER DISSIPATION vs AMBIENT TEMPERATURE

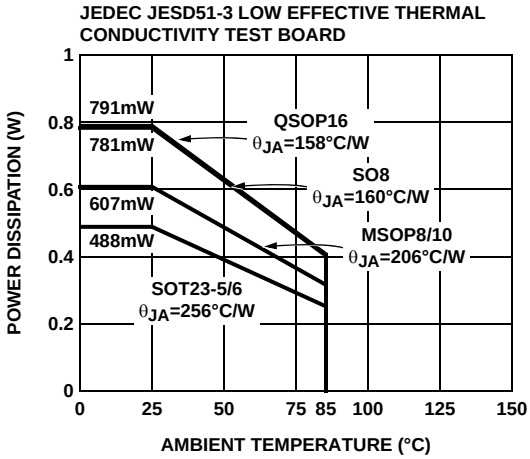
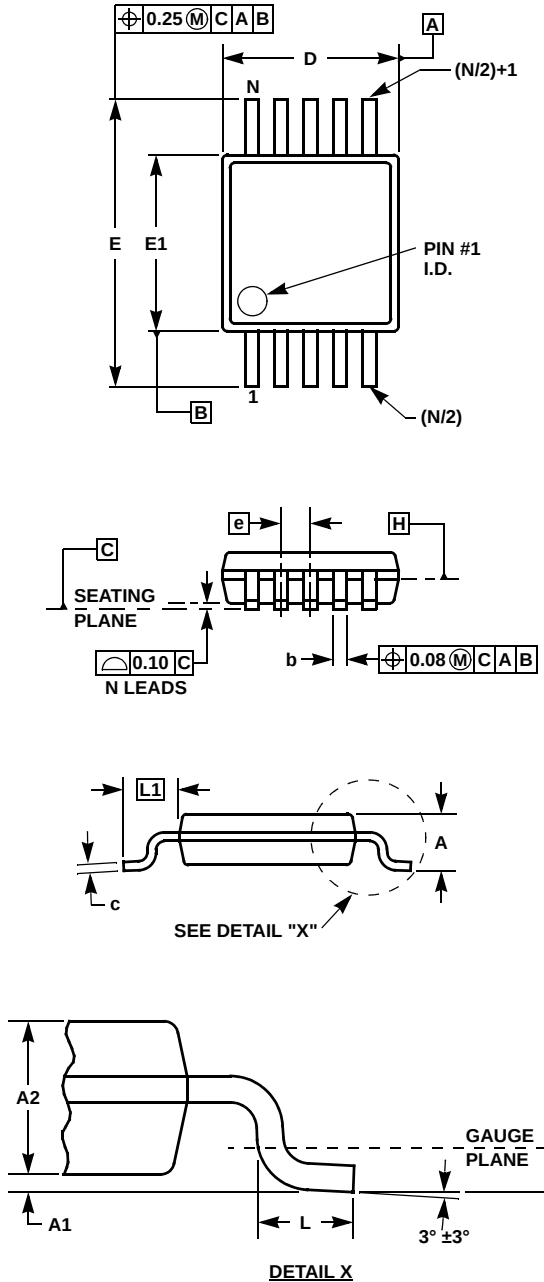


FIGURE 39. PACKAGE POWER DISSIPATION vs AMBIENT TEMPERATURE

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Mini SO Package Family (MSOP)



MDP0043

MINI SO PACKAGE FAMILY

SYMBOL	MILLIMETERS		TOLERANCE	NOTES
	MSOP8	MSOP10		
A	1.10	1.10	Max.	-
A1	0.10	0.10	±0.05	-
A2	0.86	0.86	±0.09	-
b	0.33	0.23	+0.07/-0.08	-
c	0.18	0.18	±0.05	-
D	3.00	3.00	±0.10	1, 3
E	4.90	4.90	±0.15	-
E1	3.00	3.00	±0.10	2, 3
e	0.65	0.50	Basic	-
L	0.55	0.55	±0.15	-
L1	0.95	0.95	Basic	-
N	8	10	Reference	-

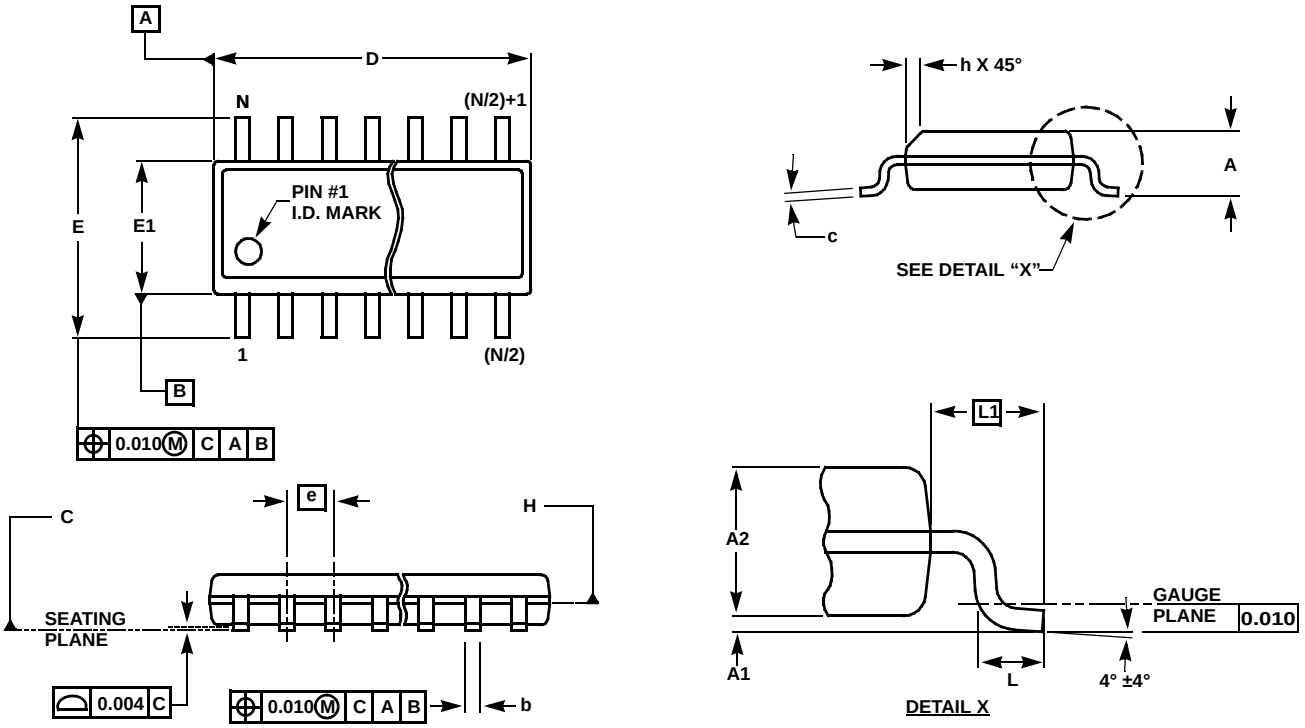
Rev. D 2/07

NOTES:

1. Plastic or metal protrusions of 0.15mm maximum per side are not included.
2. Plastic interlead protrusions of 0.25mm maximum per side are not included.
3. Dimensions “D” and “E1” are measured at Datum Plane “H”.
4. Dimensioning and tolerancing per ASME Y14.5M-1994.

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Small Outline Package Family (SO)



MDP0027

SMALL OUTLINE PACKAGE FAMILY (SO)

SYMBOL	INCHES							TOLERANCE	NOTES
	SO-8	SO-14	SO16 (0.150")	SO16 (0.300") (SOL-16)	SO20 (SOL-20)	SO24 (SOL-24)	SO28 (SOL-28)		
A	0.068	0.068	0.068	0.104	0.104	0.104	0.104	MAX	-
A1	0.006	0.006	0.006	0.007	0.007	0.007	0.007	±0.003	-
A2	0.057	0.057	0.057	0.092	0.092	0.092	0.092	±0.002	-
b	0.017	0.017	0.017	0.017	0.017	0.017	0.017	±0.003	-
c	0.009	0.009	0.009	0.011	0.011	0.011	0.011	±0.001	-
D	0.193	0.341	0.390	0.406	0.504	0.606	0.704	±0.004	1, 3
E	0.236	0.236	0.236	0.406	0.406	0.406	0.406	±0.008	-
E1	0.154	0.154	0.154	0.295	0.295	0.295	0.295	±0.004	2, 3
e	0.050	0.050	0.050	0.050	0.050	0.050	0.050	Basic	-
L	0.025	0.025	0.025	0.030	0.030	0.030	0.030	±0.009	-
L1	0.041	0.041	0.041	0.056	0.056	0.056	0.056	Basic	-
h	0.013	0.013	0.013	0.020	0.020	0.020	0.020	Reference	-
N	8	14	16	16	20	24	28	Reference	-

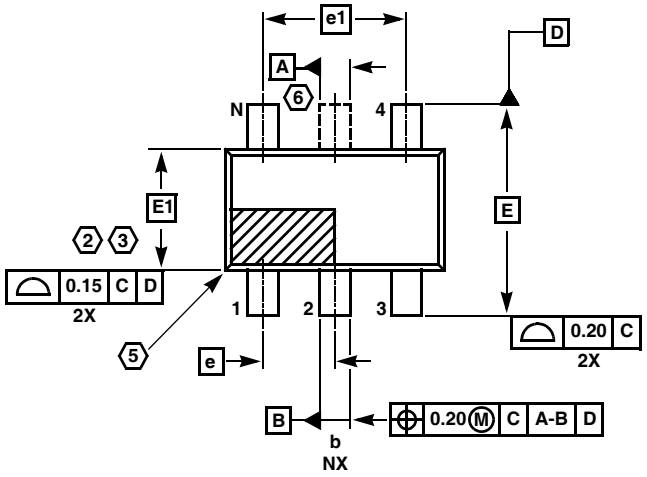
Rev. M 2/07

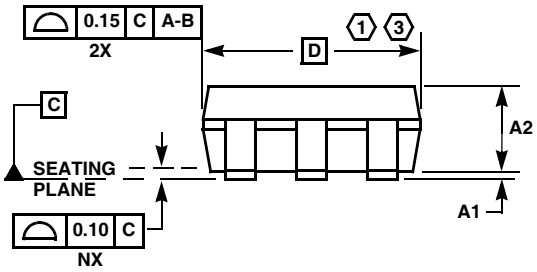
NOTES:

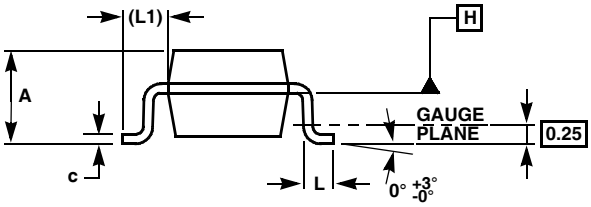
1. Plastic or metal protrusions of 0.006" maximum per side are not included.
2. Plastic interlead protrusions of 0.010" maximum per side are not included.
3. Dimensions "D" and "E1" are measured at Datum Plane "H".
4. Dimensioning and tolerancing per ASME Y14.5M-1994

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SOT-23 Package Family







MDP0038

SOT-23 PACKAGE FAMILY

SYMBOL	MILLIMETERS		TOLERANCE
	SOT23-5	SOT23-6	
A	1.45	1.45	MAX
A1	0.10	0.10	±0.05
A2	1.14	1.14	±0.15
b	0.40	0.40	±0.05
c	0.14	0.14	±0.06
D	2.90	2.90	Basic
E	2.80	2.80	Basic
E1	1.60	1.60	Basic
e	0.95	0.95	Basic
e1	1.90	1.90	Basic
L	0.45	0.45	±0.10
L1	0.60	0.60	Reference
N	5	6	Reference

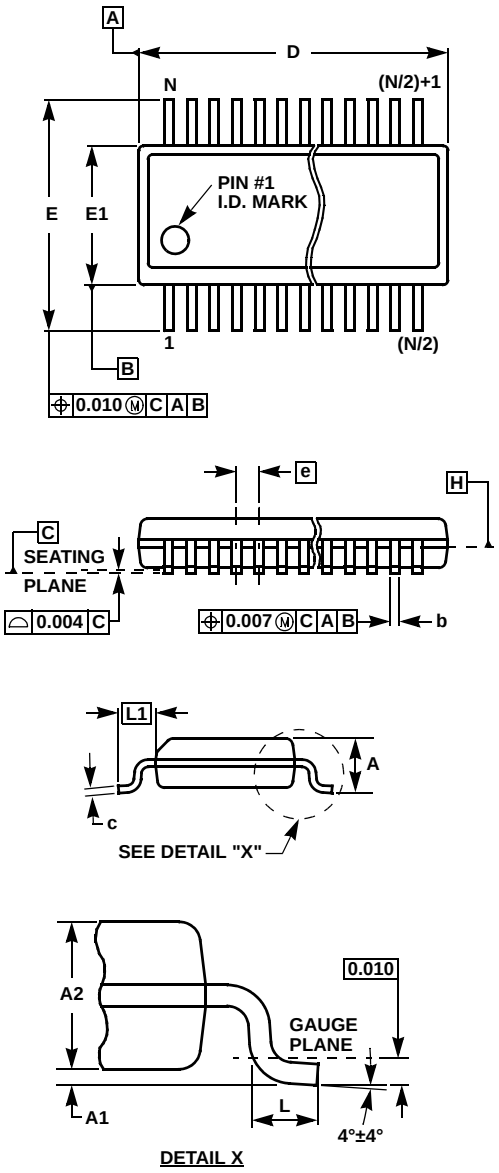
Rev. F 2/07

NOTES:

1. Plastic or metal protrusions of 0.25mm maximum per side are not included.
2. Plastic interlead protrusions of 0.25mm maximum per side are not included.
3. This dimension is measured at Datum Plane “H”.
4. Dimensioning and tolerancing per ASME Y14.5M-1994.
5. Index area - Pin #1 I.D. will be located within the indicated zone (SOT23-6 only).
6. SOT23-5 version has no center lead (shown as a dashed line).

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Quarter Size Outline Plastic Packages Family (QSOP)



MDP0040

QUARTER SIZE OUTLINE PLASTIC PACKAGES FAMILY

SYMBOL	INCHES			TOLERANCE	NOTES
	QSOP16	QSOP24	QSOP28		
A	0.068	0.068	0.068	Max.	-
A1	0.006	0.006	0.006	±0.002	-
A2	0.056	0.056	0.056	±0.004	-
b	0.010	0.010	0.010	±0.002	-
c	0.008	0.008	0.008	±0.001	-
D	0.193	0.341	0.390	±0.004	1, 3
E	0.236	0.236	0.236	±0.008	-
E1	0.154	0.154	0.154	±0.004	2, 3
e	0.025	0.025	0.025	Basic	-
L	0.025	0.025	0.025	±0.009	-
L1	0.041	0.041	0.041	Basic	-
N	16	24	28	Reference	-

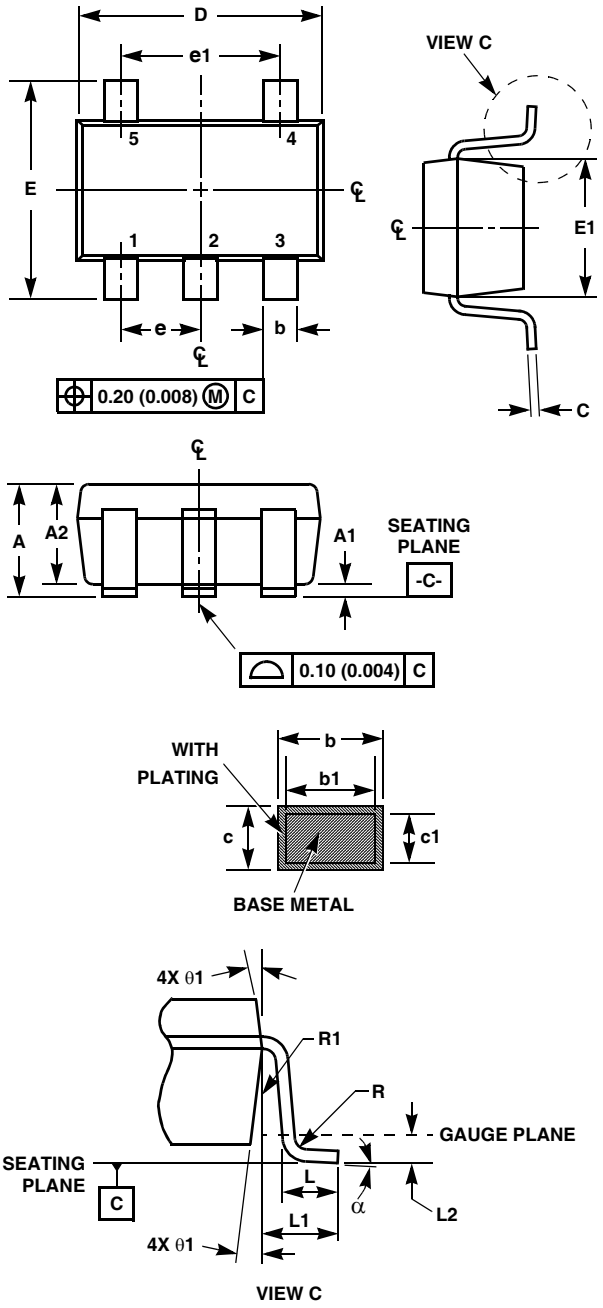
Rev. F 2/07

NOTES:

1. Plastic or metal protrusions of 0.006” maximum per side are not included.
2. Plastic interlead protrusions of 0.010” maximum per side are not included.
3. Dimensions “D” and “E1” are measured at Datum Plane “H”.
4. Dimensioning and tolerancing per ASME Y14.5M-1994.

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Small Outline Transistor Plastic Packages (SC70-5)



P5.049

5 LEAD SMALL OUTLINE TRANSISTOR PLASTIC PACKAGE

SYMBOL	INCHES		MILLIMETERS		NOTES
	MIN	MAX	MIN	MAX	
A	0.031	0.043	0.80	1.10	-
A1	0.000	0.004	0.00	0.10	-
A2	0.031	0.039	0.80	1.00	-
b	0.006	0.012	0.15	0.30	-
b1	0.006	0.010	0.15	0.25	
c	0.003	0.009	0.08	0.22	6
c1	0.003	0.009	0.08	0.20	6
D	0.073	0.085	1.85	2.15	3
E	0.071	0.094	1.80	2.40	-
E1	0.045	0.053	1.15	1.35	3
e	0.0256 Ref		0.65 Ref		-
e1	0.0512 Ref		1.30 Ref		-
L	0.010	0.018	0.26	0.46	4
L1	0.017 Ref.		0.420 Ref.		-
L2	0.006 BSC		0.15 BSC		
α	0^o	8^o	0^o	8^o	-
N	5		5		5
R	0.004	-	0.10	-	
R1	0.004	0.010	0.15	0.25	

Rev. 2 9/03

NOTES:

1. Dimensioning and tolerances per ASME Y14.5M-1994.
2. Package conforms to EIAJ SC70 and JEDEC MO-203AA.
3. Dimensions D and E1 are exclusive of mold flash, protrusions, or gate burrs.
4. Footlength L measured at reference to gauge plane.
5. “N” is the number of terminal positions.
6. These Dimensions apply to the flat section of the lead between 0.08mm and 0.15mm from the lead tip.
7. Controlling dimension: MILLIMETER. Converted inch dimensions are for reference only.

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