



**THE DATASHEET OF  
LT1795IFE#TRPBF**



# Dual 500mA/50MHz Current Feedback Line Driver Amplifier

## FEATURES

- 500mA Output Drive Current
- 50MHz Bandwidth,  $A_V = 2$ ,  $R_L = 25\Omega$
- 900V/ $\mu$ s Slew Rate,  $A_V = 2$ ,  $R_L = 25\Omega$
- Low Distortion:  $-75\text{dBc}$  at 1MHz
- High Input Impedance, 10M $\Omega$
- Wide Supply Range,  $\pm 5\text{V}$  to  $\pm 15\text{V}$
- Full Rate, Downstream ADSL Supported
- Low Power Shutdown Mode
- Power Saving Adjustable Supply Current
- Stable with  $C_L = 10,000\text{pF}$
- Power Enhanced Small Footprint Packages  
TSSOP-20, SO-20 Wide
- Available in a 20-Lead TSSOP Package

## APPLICATIONS

- ADSL HDSL2, G.lite Drivers
- Buffers
- Test Equipment Amplifiers
- Video Amplifiers
- Cable Drivers

## DESCRIPTION

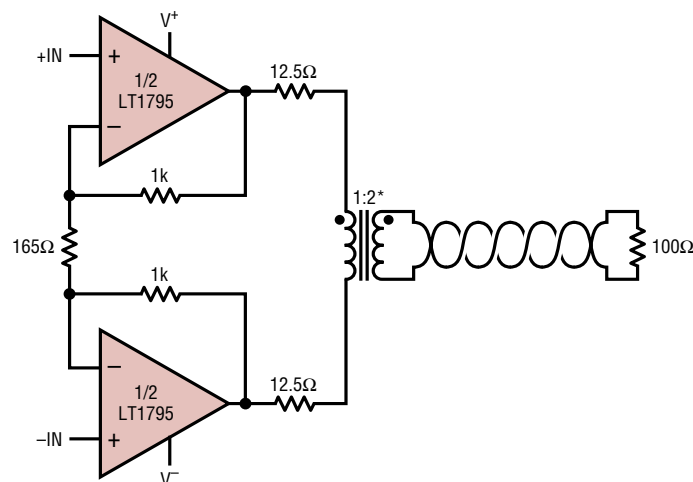
The LT<sup>®</sup>1795 is a dual current feedback amplifier with high output current and excellent large signal characteristics. The combination of high slew rate, 500mA output drive and up to  $\pm 15\text{V}$  operation enables the device to deliver significant power at frequencies in the 1MHz to 2MHz range. Short-circuit protection and thermal shutdown insure the device's ruggedness. The LT1795 is stable with large capacitive loads and can easily supply the large currents required by the capacitive loading. A shutdown feature switches the device into a high impedance, low current mode, reducing power dissipation when the device is not in use. For lower bandwidth applications, the supply current can be reduced with a single external resistor.

The LT1795 comes in the very small, thermally enhanced, 20-lead TSSOP package for maximum port density in line driver applications.

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## TYPICAL APPLICATION

Low Loss, High Power Central Office ADSL Line Driver



\* MIDCOM 50215 OR EQUIVALENT

1795 TA01

## ABSOLUTE MAXIMUM RATINGS (Note 1)

Supply Voltage .....	±18V	Specified Temperature Range (Note 3) ...	−40°C to 85°C
Input Current .....	±15mA	Junction Temperature .....	150°C
Output Short-Circuit Duration (Note 2) .....	Indefinite	Storage Temperature Range .....	−65°C to 150°C
Operating Temperature Range .....	−40°C to 85°C	Lead Temperature (Soldering, 10 sec) .....	300°C

## PACKAGE/ORDER INFORMATION

<p>FE PACKAGE 20-LEAD PLASTIC TSSOP <math>T_{JMAX} = 150^{\circ}C</math>, <math>\theta_{JA} = 40^{\circ}C/W</math> (Note 4) UNDERSIDE METAL INTERNALLY CONNECTED TO <math>V^{-}</math> (PCB CONNECTION OPTIONAL)</p>	<p>ORDER PART NUMBER</p> <p>LT1795CFE LT1795IFE</p>	<p>S PACKAGE 20-LEAD PLASTIC SW <math>T_{JMAX} = 150^{\circ}C</math>, <math>\theta_{JA} \approx 40^{\circ}C/W</math> (Note 4)</p>	<p>ORDER PART NUMBER</p> <p>LT1795CSW LT1795ISW</p>
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Consult LTC Marketing for parts specified with wider operating temperature ranges.

## ELECTRICAL CHARACTERISTICS

The ● denotes the specifications which apply over the full specified temperature range, otherwise specifications are at  $T_A = 25^{\circ}C$ .  $V_{CM} = 0V$ ,  $\pm 5V \leq V_S \leq \pm 15V$ , pulse tested,  $V_{SHDN} = 2.5V$ ,  $V_{SHDNREF} = 0V$  unless otherwise noted. (Note 3)

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
$V_{OS}$	Input Offset Voltage		●	±3 ±4.5	±13 ±17	mV mV
	Input Offset Voltage Matching		●	±1 ±1.5	±3.5 ±5.0	mV mV
	Input Offset Voltage Drift		●	10		$\mu V/^{\circ}C$
$I_{IN}^{+}$	Noninverting Input Current		●	±2 ±8	±5 ±20	$\mu A$ $\mu A$
	Noninverting Input Current Matching		●	±0.5 ±1.5	±2 ±7	$\mu A$ $\mu A$
$I_{IN}^{-}$	Inverting Input Current		●	±10 ±20	±70 ±100	$\mu A$ $\mu A$
	Inverting Input Current Matching		●	±10 ±20	±30 ±50	$\mu A$ $\mu A$
$e_n$	Input Noise Voltage Density	$f = 10kHz$ , $R_F = 1k$ , $R_G = 10\Omega$ , $R_S = 0\Omega$		3.6		$nV/\sqrt{Hz}$
$+i_n$	Input Noise Current Density	$f = 10kHz$ , $R_F = 1k$ , $R_G = 10\Omega$ , $R_S = 10k\Omega$		2		$pA/\sqrt{Hz}$
$-i_n$	Input Noise Current Density	$f = 10kHz$ , $R_F = 1k$ , $R_G = 10\Omega$ , $R_S = 10k\Omega$		30		$pA/\sqrt{Hz}$

## ELECTRICAL CHARACTERISTICS

The ● denotes the specifications which apply over the full specified temperature range, otherwise specifications are at  $T_A = 25^\circ\text{C}$ .  $V_{\text{CM}} = 0\text{V}$ ,  $\pm 5\text{V} \leq V_S \leq \pm 15\text{V}$ , pulse tested,  $V_{\text{SHDN}} = 2.5\text{V}$ ,  $V_{\text{SHDNREF}} = 0\text{V}$  unless otherwise noted. (Note 3)

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
$R_{\text{IN}}^+$	Input Resistance	$V_{\text{IN}} = \pm 12\text{V}$ , $V_S = \pm 15\text{V}$	● 1.5	10		M $\Omega$
		$V = \pm 2\text{V}$ , $V_S = \pm 5\text{V}$	● 0.5	5		M $\Omega$
$C_{\text{IN}}^+$	Input Capacitance	$V_{\text{IN}} = \pm 15\text{V}$		2		pF
	Input Voltage Range (Note 5)	$V_S = \pm 15\text{V}$	● $\pm 12$	$\pm 13.5$		V
		$V_S = \pm 5\text{V}$	● $\pm 2$	$\pm 3.5$		V
CMRR	Common Mode Rejection Ratio	$V_S = \pm 15\text{V}$ , $V_{\text{CM}} = \pm 12\text{V}$	● 55	62		dB
		$V_S = \pm 5\text{V}$ , $V_{\text{CM}} = \pm 2\text{V}$	● 50	60		dB
	Inverting Input Current Common Mode Rejection	$V_S = \pm 15\text{V}$ , $V_{\text{CM}} = \pm 12\text{V}$	●	1	10	$\mu\text{A/V}$
		$V_S = \pm 5\text{V}$ , $V_{\text{CM}} = \pm 2\text{V}$	●	1	10	$\mu\text{A/V}$
PSRR	Power Supply Rejection Ratio	$V_S = \pm 5\text{V}$ to $\pm 15\text{V}$	● 60	77		dB
	Noninverting Input Current Power Supply Rejection	$V_S = \pm 5\text{V}$ to $\pm 15\text{V}$	●	30	500	nA/V
		$V_S = \pm 5\text{V}$ to $\pm 15\text{V}$	●	1	5	$\mu\text{A/V}$
$A_V$	Large-Signal Voltage Gain	$V_S = \pm 15\text{V}$ , $V_{\text{OUT}} = \pm 10\text{V}$ , $R_L = 25\Omega$	● 55	68		dB
		$V_S = \pm 5\text{V}$ , $V_{\text{OUT}} = \pm 2\text{V}$ , $R_L = 12\Omega$	● 55	68		dB
$R_{\text{OL}}$	Transresistance, $\Delta V_{\text{OUT}}/\Delta I_{\text{IN}}^-$	$V_S = \pm 15\text{V}$ , $V_{\text{OUT}} = \pm 10\text{V}$ , $R_L = 25\Omega$	● 75	200		k $\Omega$
		$V_S = \pm 5\text{V}$ , $V_{\text{OUT}} = \pm 2\text{V}$ , $R_L = 12\Omega$	● 75	200		k $\Omega$
$V_{\text{OUT}}$	Maximum Output Voltage Swing	$V_S = \pm 15\text{V}$ , $R_L = 25\Omega$	● $\pm 11.5$	$\pm 12.5$		V
			$\pm 10.0$	$\pm 11.5$		V
		$V_S = \pm 5\text{V}$ , $R_L = 12\Omega$	● $\pm 2.5$	$\pm 3$		V
			$\pm 2.0$	$\pm 3$		V
$I_{\text{OUT}}$	Maximum Output Current	$V_S = \pm 15\text{V}$ , $R_L = 1\Omega$	● 0.5	1		A
$I_S$	Supply Current Per Amplifier	$V_S = \pm 15\text{V}$ , $V_{\text{SHDN}} = 2.5\text{V}$	●	29	34	mA
					42	mA
	Supply Current Per Amplifier, $R_{\text{SHDN}} = 51\text{k}$ , (Note 6)	$V_S = \pm 15\text{V}$	●	15	20	mA
	Positive Supply Current, Shutdown	$V_S = \pm 15\text{V}$ , $V_{\text{SHDN}} = 0.4\text{V}$	●	1	200	$\mu\text{A}$
	Output Leakage Current, Shutdown	$V_S = \pm 15\text{V}$ , $V_{\text{SHDN}} = 0.4\text{V}$		1	200	$\mu\text{A}$
	Channel Separation	$V_S = \pm 15\text{V}$ , $V_{\text{OUT}} = \pm 10\text{V}$ , $R_L = 25\Omega$		80	110	dB
HD <sub>2</sub> , HD <sub>3</sub>	2nd and 3rd Harmonic Distortion Differential Mode	$f = 1\text{MHz}$ , $V_0 = 20\text{V}_{\text{P-P}}$ , $R_L = 50$ , $A_V = 2$		-75		dBc
SR	Slew Rate (Note 7)	$A_V = 4$ , $R_L = 400\Omega$		400	900	V/ $\mu\text{s}$
		$A_V = 4$ , $R_L = 25\Omega$			900	V/ $\mu\text{s}$
BW	Small-Signal BW	$A_V = 2$ , $V_S = \pm 15\text{V}$ , Peaking $\leq 1.5\text{dB}$ $R_F = R_G = 910\Omega$ , $R_L = 100\Omega$		65		MHz
		$A_V = 2$ , $V_S = \pm 15\text{V}$ , Peaking $\leq 1.5\text{dB}$ $R_F = R_G = 820\Omega$ , $R_L = 25\Omega$		50		MHz

**Note 1:** Absolute Maximum Ratings are those values beyond which the life of a device may be impaired.

**Note 2:** Applies to short-circuits to ground only. A short-circuit between the output and either supply may permanently damage the part when operated on supplies greater than  $\pm 10\text{V}$ .

**Note 3:** The LT1795C is guaranteed to meet specified performance from  $0^\circ\text{C}$  to  $70^\circ\text{C}$  and is designed, characterized and expected to meet these extended temperature limits, but is not tested at  $-40^\circ\text{C}$  and  $85^\circ\text{C}$ . The LT1795I is guaranteed to meet the extended temperature limits.

**Note 4:** Thermal resistance varies depending upon the amount of PC board metal attached to the device. If the maximum dissipation of the package is exceeded, the device will go into thermal shutdown and be protected.

**Note 5:** Guaranteed by the CMRR tests.

**Note 6:**  $R_{\text{SHDN}}$  is connected between the SHDN pin and  $V^+$ .

**Note 7:** Slew rate is measured at  $\pm 5\text{V}$  on a  $\pm 10\text{V}$  output signal while operating on  $\pm 15\text{V}$  supplies with  $R_F = 1\text{k}$ ,  $R_G = 333\Omega$  ( $A_V = +4$ ) and  $R_L = 400\Omega$ .

## SMALL-SIGNAL BANDWIDTH

$R_{SD} = 0\Omega$ ,  $I_S = 30\text{mA}$  per Amplifier,  $V_S = \pm 15\text{V}$ ,  
Peaking  $\leq 1\text{dB}$ ,  $R_L = 25\Omega$

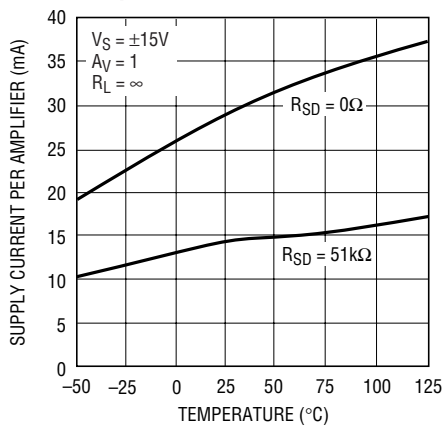
$R_{SD} = 51\text{k}\Omega$ ,  $I_S = 15\text{mA}$  per Amplifier,  $V_S = \pm 15\text{V}$ ,  
Peaking  $\leq 1\text{dB}$ ,  $R_L = 25\Omega$

$A_V$	$R_F$	$R_G$	-3dB BW (MHz)
-1	976	976	44
1	1.15k	—	53
2	976	976	48
10	649	72	46

$A_V$	$R_F$	$R_G$	-3dB BW (MHz)
-1	976	976	30
1	1.15k	—	32
2	976	976	32
10	649	72	27

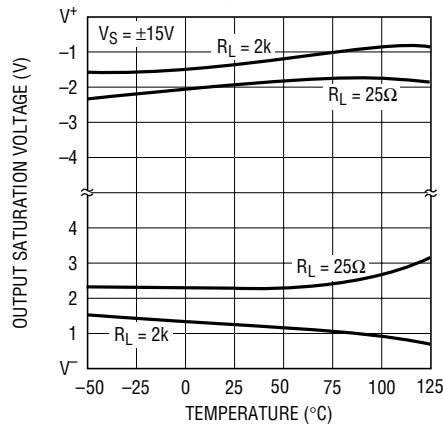
## TYPICAL PERFORMANCE CHARACTERISTICS

Supply Current vs Ambient Temperature



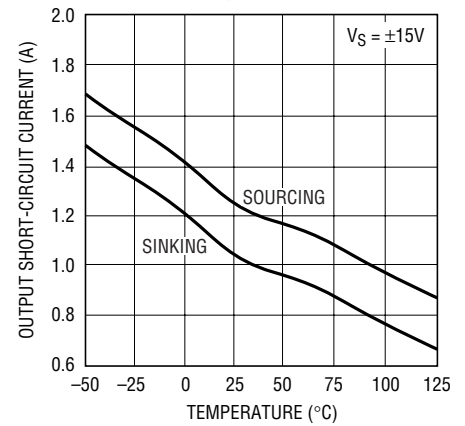
LT1795 G01

Output Saturation Voltage vs Junction Temperature



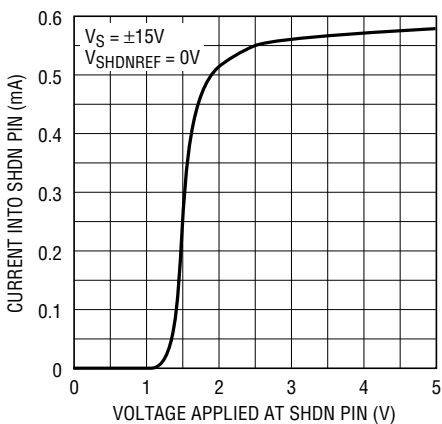
LT1795 G02

Output Short-Circuit Current vs Junction Temperature



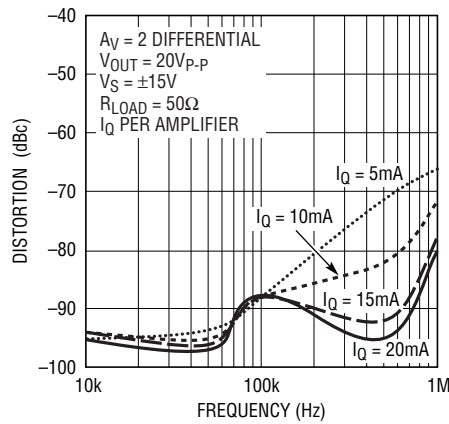
LT1795 G03

SHDN Pin Current vs Voltage



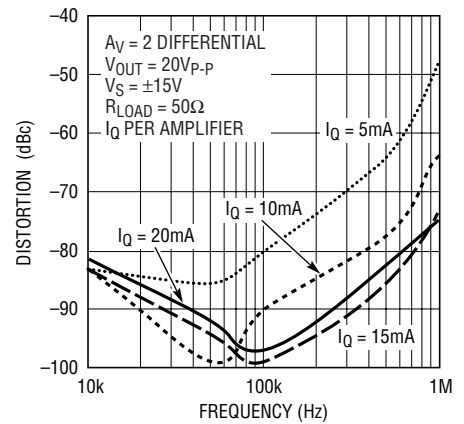
1795 G04

Second Harmonic Distortion vs Frequency



LT1795 G05

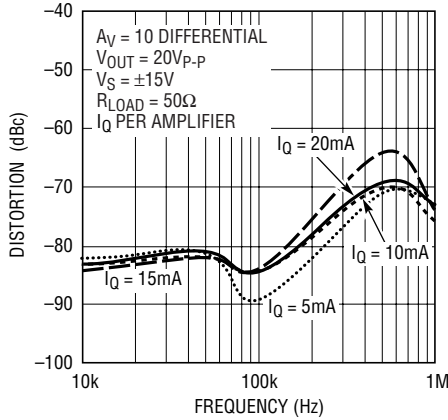
Third Harmonic Distortion vs Frequency



LT1795 G06

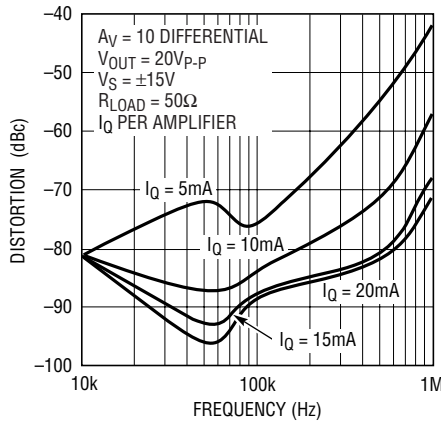
# TYPICAL PERFORMANCE CHARACTERISTICS

**Second Harmonic Distortion vs Frequency**



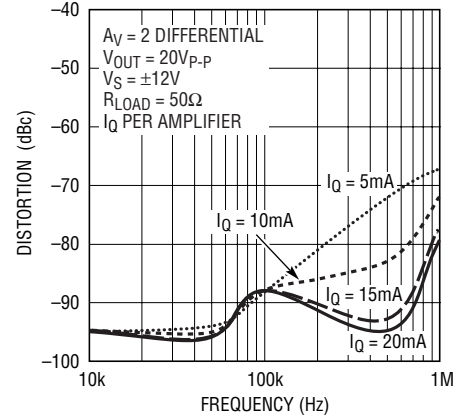
LT1795 G07

**Third Harmonic Distortion vs Frequency**



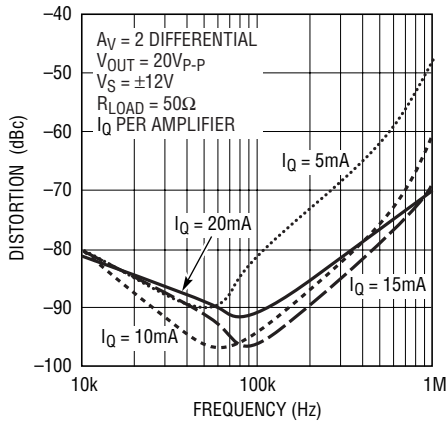
LT1795 G08

**Second Harmonic Distortion vs Frequency**



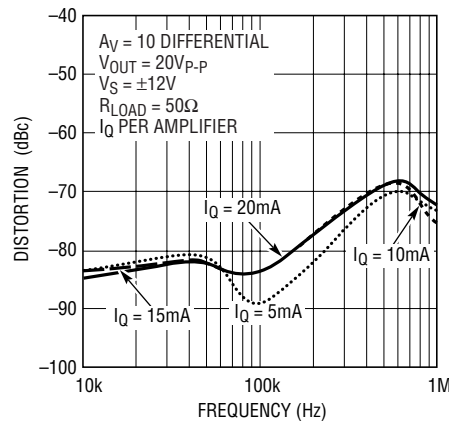
LT1795 G09

**Third Harmonic Distortion vs Frequency**



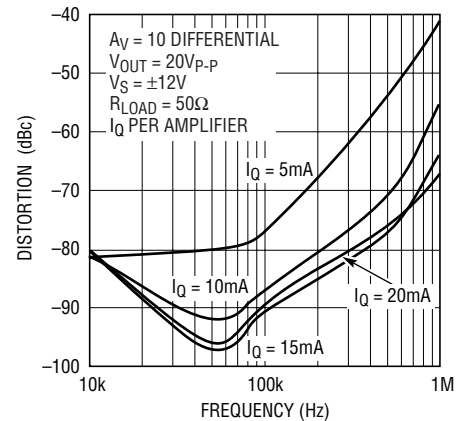
LT1795 G10

**Second Harmonic Distortion vs Frequency**



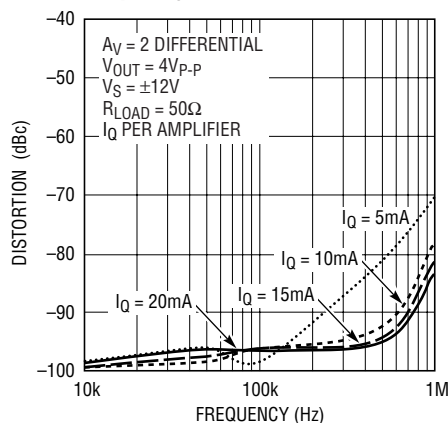
LT1795 G11

**Third Harmonic Distortion vs Frequency**



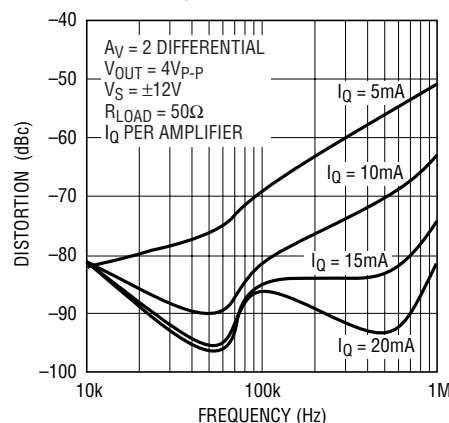
LT1795 G12

**Second Harmonic Distortion vs Frequency**



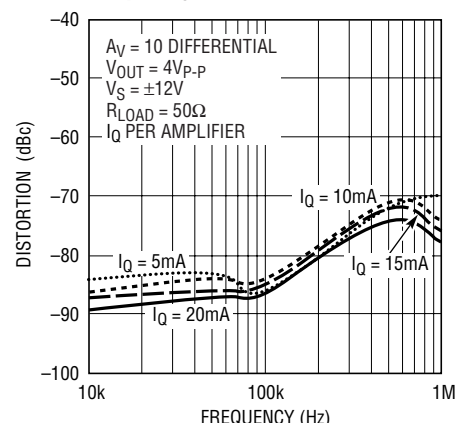
LT1795 G13

**Third Harmonic Distortion vs Frequency**



LT1795 G14

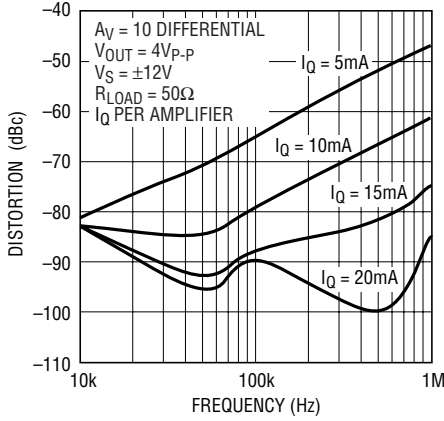
**Second Harmonic Distortion vs Frequency**



LT1795 G15

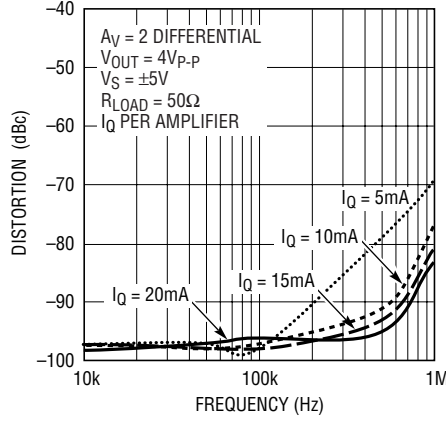
# TYPICAL PERFORMANCE CHARACTERISTICS

**Third Harmonic Distortion vs Frequency**



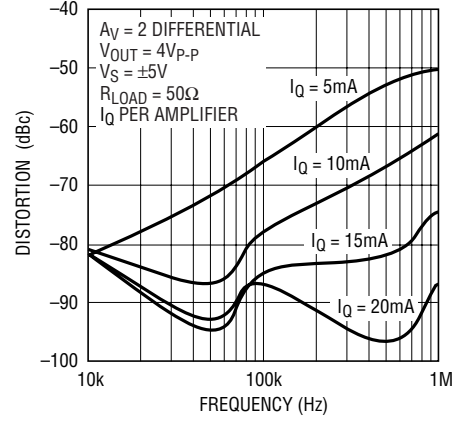
LT1795 G16

**Second Harmonic Distortion vs Frequency**



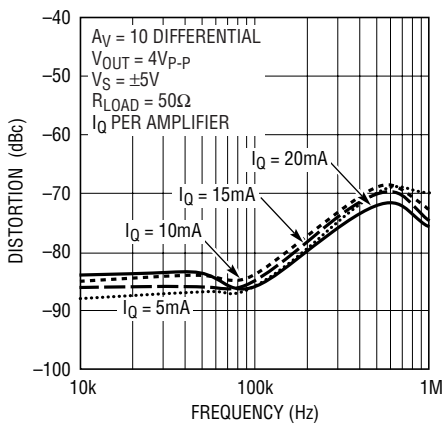
LT1795 G17

**Third Harmonic Distortion vs Frequency**



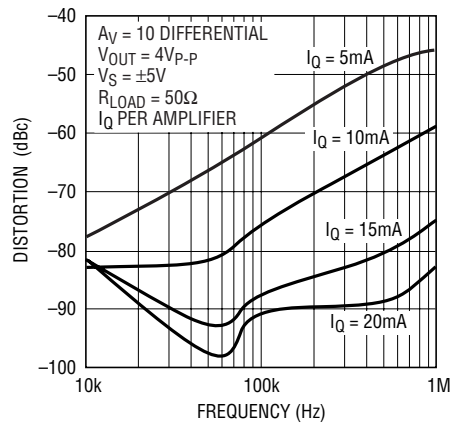
LT1795 G18

**Second Harmonic Distortion vs Frequency**



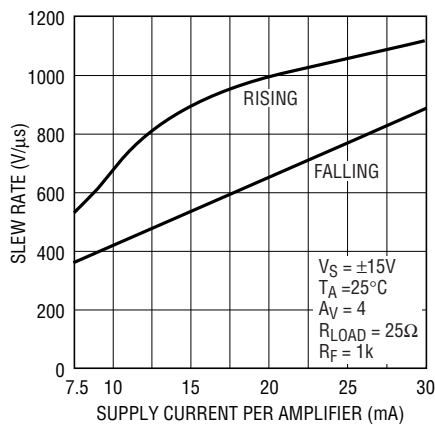
LT1795 G19

**Third Harmonic Distortion vs Frequency**



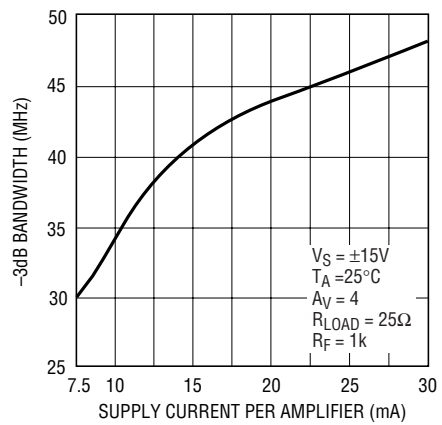
LT1795 G20

**Slew Rate vs Supply Current**



1795 • G21

**-3dB Bandwidth vs Supply Current**



1795 • G22

## APPLICATIONS INFORMATION

The LT1795 is a dual current feedback amplifier with high output current drive capability. The amplifier is designed to drive low impedance loads such as twisted-pair transmission lines with excellent linearity.

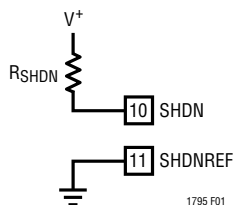
### SHUTDOWN/CURRENT SET

**If the shutdown/current set feature is not used, connect SHDN to V<sup>+</sup> and SHDNREF to ground.**

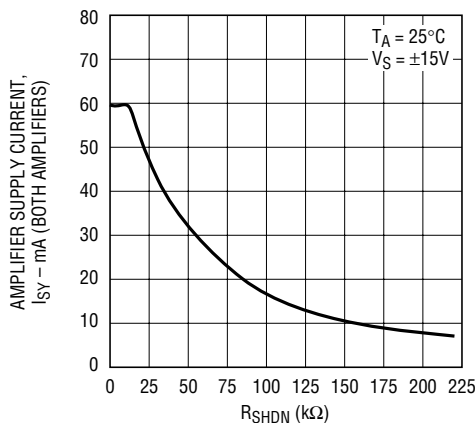
The SHDN and SHDNREF pins control the biasing of the two amplifiers. The pins can be used to either turn off the amplifiers completely, reducing the quiescent current to less than 200μA, or to control the quiescent current in normal operation.

When  $V_{SHDN} = V_{SHDNREF}$ , the device is shut down. The device will interface directly with 3V or 5V CMOS logic when SHDNREF is grounded and the control signal is applied to the SHDN pin. Switching time between the active and shutdown states is about 1.5μs.

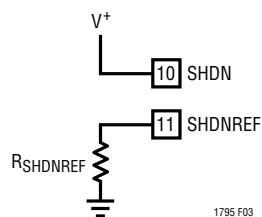
Figures 1 to 4 illustrate how the SHDN and SHDNREF pins can be used to reduce the amplifier quiescent current. In both cases, an external resistor is used to set the current. The two approaches are equivalent, however the required resistor values are different. The quiescent current will be approximately 115 times the current in the SHDN pin and 230 times the current in the SHDNREF pin. The voltage across the resistor in either condition is  $V^+ - 1.5V$ . For example, a 50k resistor between V<sup>+</sup> and SHDN will set the



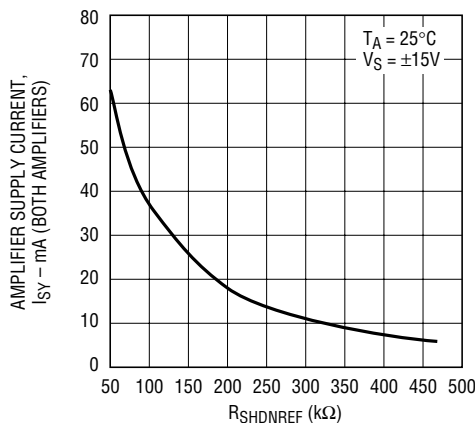
**Figure 1. R<sub>SHDN</sub> Connected Between V<sup>+</sup> and SHDN (Pin 10); SHDNREF (Pin 11) = GND. See Figure 2**



**Figure 2. LT1795 Amplifier Supply Current vs R<sub>SHDN</sub>. R<sub>SHDN</sub> Connected Between V<sup>+</sup> and SHDN, SHDNREF = GND (See Figure 1)**



**Figure 3. R<sub>SHDNREF</sub> Connected Between SHDNREF (Pin 11) and GND; SHDN (Pin 10) = V<sup>+</sup>. See Figure 4**



**Figure 4. LT1795 Amplifier Supply Current vs R<sub>SHDNREF</sub>. R<sub>SHDNREF</sub> Connected Between SHDNREF and GND, SHDN = V<sup>+</sup> (See Figure 3)**

## APPLICATIONS INFORMATION

quiescent current to 33mA with  $V_S = \pm 15V$ . If ON/OFF control is desired in addition to reduced quiescent current, then the circuits in Figures 5 to 7 can be employed.

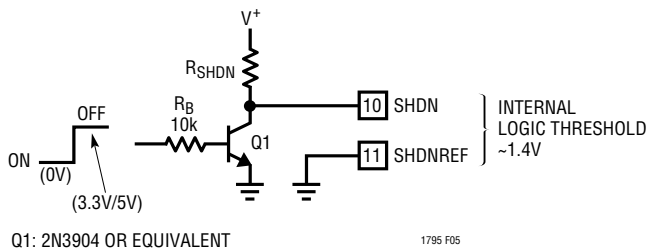


Figure 5. Setting Amplifier Supply Current Level with ON/OFF Control, Version 1

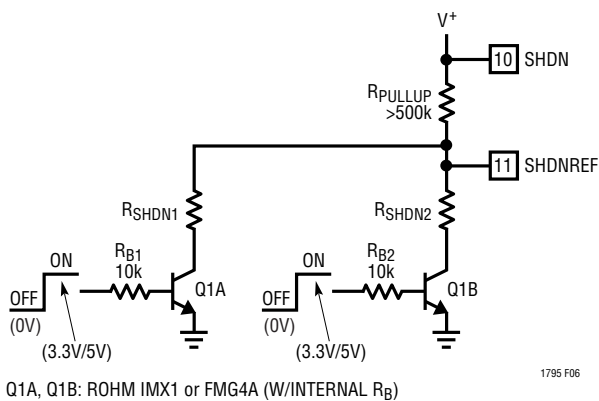


Figure 6. Setting Multiple Amplifier Supply Current Levels with ON/OFF Control, Version 2

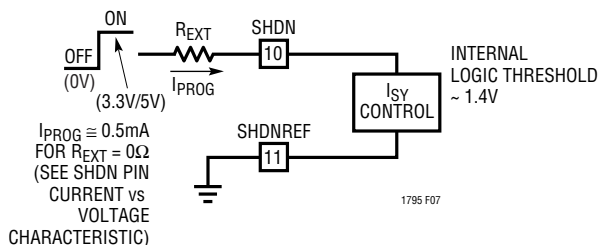


Figure 7. Setting Amplifier Supply Current Level with ON/OFF Control, Version 3

Figure 8 illustrates a partial shutdown with direct logic control. By keeping the output stage slightly biased on, the output impedance remains low, preserving the line termination. The design equations are:

$$R1 = \frac{115 \cdot V_H}{(I_S)_{ON} - (I_S)_{OFF}}$$

$$R2 = \frac{115 \cdot (V_{CC} - V_{SHDN})}{(V_{SHDN} / V_H) \cdot [(I_S)_{ON} - (I_S)_{OFF}] + (I_S)_{OFF}}$$

where

$V_H$  = Logic High Level

$(I_S)_{ON}$  = Supply Current Fully On

$(I_S)_{OFF}$  = Supply Current Partially On

$V_{SHDN}$  = Shutdown Pin Voltage  $\approx 1.4V$

$V_{CC}$  = Positive Supply Voltage

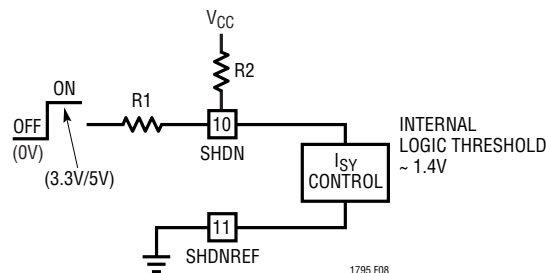


Figure 8. Partial Shutdown

## THERMAL CONSIDERATIONS

The LT1795 contains a thermal shutdown feature that protects against excessive internal (junction) temperature. If the junction temperature of the device exceeds the protection threshold, the device will begin cycling between normal operation and an off state. The cycling is not harmful to the part. The thermal cycling occurs at a slow rate, typically 10ms to several seconds, which depends on the power dissipation and the thermal time constants of the package and heat sinking. Raising the ambient tempera-

## APPLICATIONS INFORMATION

ture until the device begins thermal shutdown gives a good indication of how much margin there is in the thermal design.

For surface mount devices, heat sinking is accomplished by using the heat spreading capabilities of the PC board and its copper traces. For the TSSOP package, power is dissipated through the exposed heatsink. For the SO package, power is dissipated from the package primarily through the  $V^-$  pins (4 to 7 and 14 to 17). These pins should have a good thermal connection to a copper plane, either by direct contact or by plated through holes. The copper plane may be an internal or external layer. The thermal resistance, junction-to-ambient will depend on the total copper area connected to the device. For example, the thermal resistance of the LT1795 connected to a  $2 \times 2$  inch, double sided 2 oz copper plane is  $40^\circ\text{C/W}$ .

### CALCULATING JUNCTION TEMPERATURE

The junction temperature can be calculated from the equation:

$$T_J = (P_D)(\theta_{JA}) + T_A$$

where

$T_J$  = Junction Temperature

$T_A$  = Ambient Temperature

$P_D$  = Device Dissipation

$\theta_{JA}$  = Thermal Resistance (Junction-to-Ambient)

### Differential Input Signal Swing

The differential input swing is limited to about  $\pm 5\text{V}$  by an ESD protection device connected between the inputs. In normal operation, the differential voltage between the input pins is small, so this clamp has no effect. However, in the shutdown mode, the differential swing can be the same as the input swing. The clamp voltage will then set the maximum allowable input voltage.

### POWER SUPPLY BYPASSING

To obtain the maximum output and the minimum distortion from the LT1795, the power supply rails should be well bypassed. For example, with the output stage supply-

ing 0.5A current peaks into the load, a  $1\Omega$  power supply impedance will cause a droop of 0.5V, reducing the available output swing by that amount. Surface mount tantalum and ceramic capacitors make excellent low ESR bypass elements when placed close to the chip. For frequencies above 100kHz, use  $1\mu\text{F}$  and 100nF ceramic capacitors. If significant power must be delivered below 100kHz, capacitive reactance becomes the limiting factor. Larger ceramic or tantalum capacitors, such as  $4.7\mu\text{F}$ , are recommended in place of the  $1\mu\text{F}$  unit mentioned above.

Inadequate bypassing is evidenced by reduced output swing and “distorted” clipping effects when the output is driven to the rails. If this is observed, check the supply pins of the device for ripple directly related to the output waveform. Significant supply modulation indicates poor bypassing.

### Capacitance on the Inverting Input

Current feedback amplifiers require resistive feedback from the output to the inverting input for stable operation. Take care to minimize the stray capacitance between the output and the inverting input. Capacitance on the inverting input to ground will cause peaking in the frequency response (and overshoot in the transient response), but it does not degrade the stability of the amplifier.

### Feedback Resistor Selection

The optimum value for the feedback resistors is a function of the operating conditions of the device, the load impedance and the desired flatness of response. The Typical AC Performance tables give the values which result in less than 1dB of peaking for various resistive loads and operating conditions. If this level of flatness is not required, a higher bandwidth can be obtained by use of a lower feedback resistor.

For resistive loads, the COMP pin should be left open (see Capacitive Loads section).

### Capacitive Loads

The LT1795 includes an optional compensation network for driving capacitive loads. This network eliminates most of the output stage peaking associated with capacitive loads, allowing the frequency response to be flattened.

## APPLICATIONS INFORMATION

Figure 9 shows the effect of the network on a 200pF load. Without the optional compensation, there is a 6dB peak at 85MHz caused by the effect of the capacitance on the output stage. Adding a 0.01μF bypass capacitor between the output and the COMP pins connects the compensation

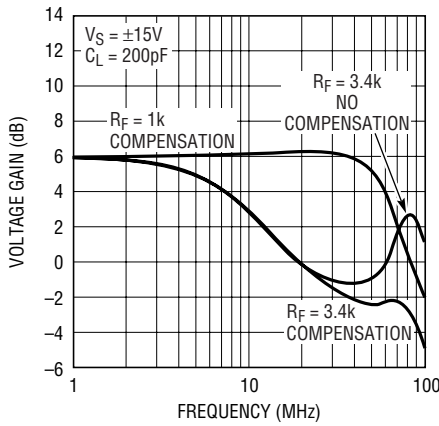


Figure 9

and greatly reduces the peaking. A lower value feedback resistor can now be used, resulting in a response which is flat to ±1dB to 45MHz. The network has the greatest effect for  $C_L$  in the range of 0pF to 1000pF.

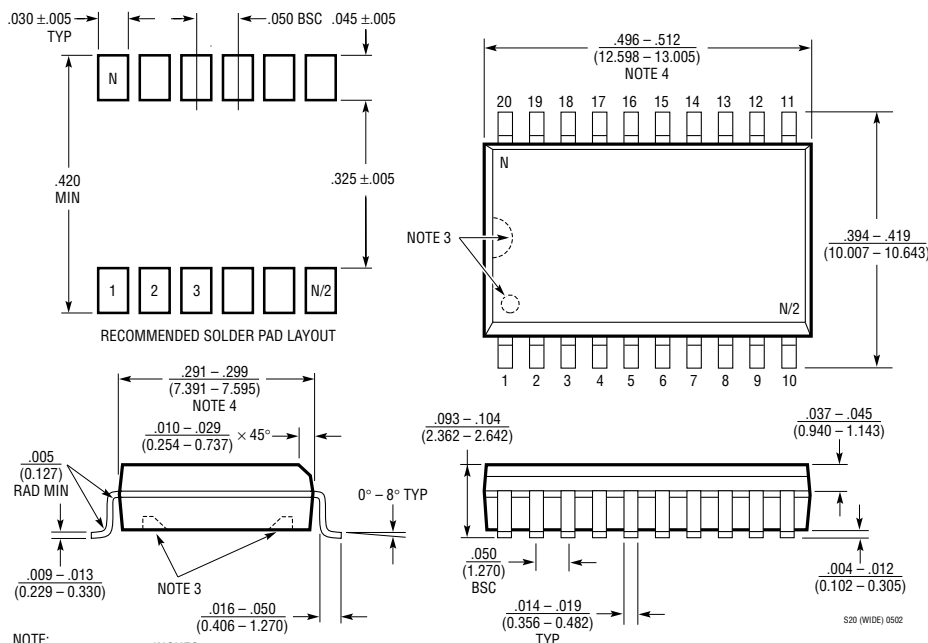
Although the optional compensation works well with capacitive loads, it simply reduces the bandwidth when it is connected with resistive loads. For instance, with a 25Ω load, the bandwidth drops from 48MHz to 32MHz when the compensation is connected. Hence, the compensation was made optional. To disconnect the optional compensation, leave the COMP pin open.

## DEMO BOARD

A demo board (DC261A) is available for evaluating the performance of the LT1795. The board is configured as a differential line driver/receiver suitable for xDSL applications. For details, consult your local sales representative.

## PACKAGE DESCRIPTION

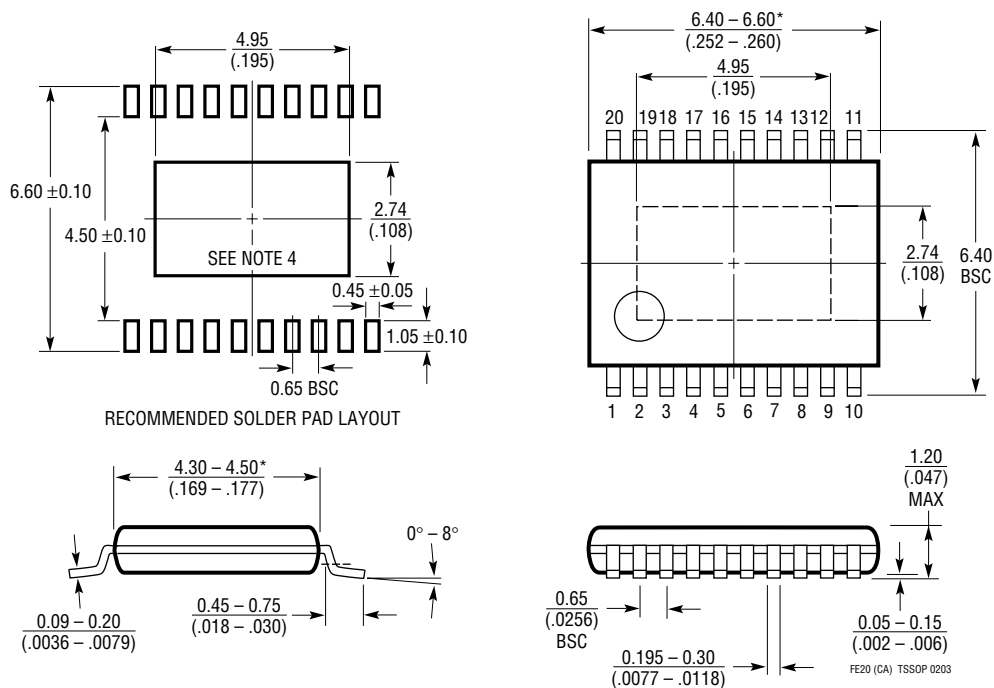
### SW Package 20-Lead Plastic Small Outline (Wide .300 Inch) (Reference LTC DWG # 05-08-1620)



- NOTE:
1. DIMENSIONS IN  $\frac{1}{16}$  INCHES (MILLIMETERS)
  2. DRAWING NOT TO SCALE
  3. PIN 1 IDENT, NOTCH ON TOP AND CAVITIES ON THE BOTTOM OF PACKAGES ARE THE MANUFACTURING OPTIONS. THE PART MAY BE SUPPLIED WITH OR WITHOUT ANY OF THE OPTIONS
  4. THESE DIMENSIONS DO NOT INCLUDE MOLD FLASH OR PROTRUSIONS. MOLD FLASH OR PROTRUSIONS SHALL NOT EXCEED .006" (0.15mm)

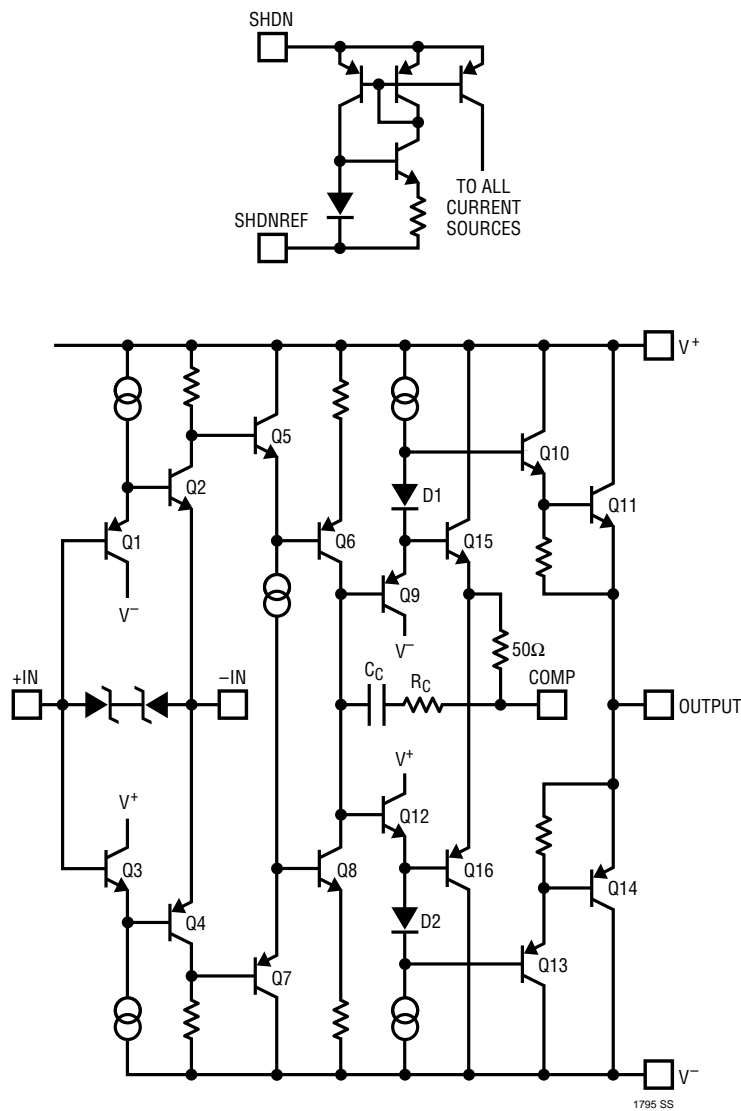
# PACKAGE DESCRIPTION

**FE Package**  
**20-Lead Plastic TSSOP (4.4mm)**  
 (Reference LTC DWG # 05-08-1663)  
**Exposed Pad Variation CA**



- NOTE:
1. CONTROLLING DIMENSION: MILLIMETERS
  2. DIMENSIONS ARE IN MILLIMETERS (INCHES)
  3. DRAWING NOT TO SCALE
  4. RECOMMENDED MINIMUM PCB METAL SIZE FOR EXPOSED PAD ATTACHMENT
- \*DIMENSIONS DO NOT INCLUDE MOLD FLASH. MOLD FLASH SHALL NOT EXCEED 0.150mm (.006") PER SIDE

**SIMPLIFIED SCHEMATIC**



1795 SS

**RELATED PARTS**

PART NUMBER	DESCRIPTION	COMMENTS
LT1497	Dual 125mA, 50MHz Current Feedback Amplifier	900V/ $\mu$ s Slew Rate
LT1207	Dual 250mA, 60MHz Current Feedback Amplifier	Shutdown/Current Set Function
LT1886	Dual 200mA, 700MHz Voltage Feedback Amplifier	Low Distortion: $-72\text{dBc}$ at 200kHz

## Looking for pricing, stock, or lifecycle information?

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