

LT6552

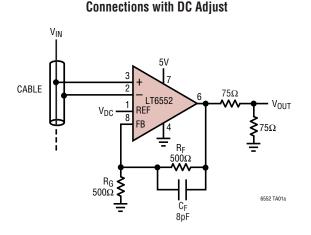
FEATURES

- Differential or Single-Ended Gain Block
- Wide Supply Range 3V to 12.6V
- Output Swings Rail-to-Rail
- Input Common Mode Range Includes Ground
- 600V/µs Slew Rate
- **-**3dB Bandwidth = 75MHz, $A_V = \pm 2$
- CMRR at 10MHz: >60dB
- Specified on 3.3V, 5V and ±5V Supplies
- High Output Drive: ±70mA
- Power Shutdown to 300µA
- Operating Temperature Range: –40°C to 85°C
- Available in 8-Lead SO and Tiny 3mm x 3mm x 0.8mm DFN Packages

APPLICATIONS

- Differential to Single-Ended Conversion
- Video Line Driver
- Automotive Displays
- RGB Amplifiers
- Coaxial Cable Drivers
- Low Voltage High Speed Signal Processing

TYPICAL APPLICATION



Cable Sense Amplifier for Loop Through

3.3V Single Supply Video Difference Amplifier

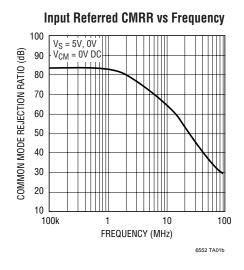
DESCRIPTION

The LT[®]6552 is a video difference amplifier optimized for low voltage single supply operation. This versatile amplifier features uncommitted high input impedance (+) and (-) inputs and can be used in differential or single-ended configurations. A second set of inputs gives gain adjustment and DC control to the differential amplifier.

On a single 3.3V supply, the input voltage range extends from ground to 1.3V and the output swings from ground to 2.9V while driving a 150 Ω load. The LT6552 features 75MHz – 3dB bandwidth, 600V/µs slew rate, and \pm 70mA output current making it ideal for driving cables directly. The LT6552 maintains its performance for supplies from 3V to 12.6V and is fully specified at 3.3V, 5V and \pm 5V supplies. The shutdown feature reduces power dissipation to less than 1mW and allows multiple amplifiers to drive the same cable.

The LT6552 is available in the 8-lead SO package as well as a tiny, dual fine pitch leadless package (DFN). The device is specified over the commercial and industrial temperature ranges.

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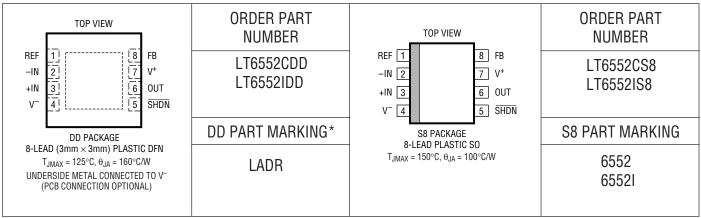


ABSOLUTE MAXIMUM RATINGS (Note 1)

Supply Voltage (V ⁺ to V ⁻)	12.6V
Input Current (Note 2)	±10mA
Input Voltage Range	V ⁻ to V ⁺
Differential Input Voltage	
+Input (Pin 3) to –Input (Pin 2)	±V _S
Output Short-Circuit Duration (Note 3)	Indefinite
Operating Temperature Range (Note 4)40	°C to 85°C

Specified Temperature Range (Note 5)40°C to 85°C
Maximum Junction Temperature 150°C
(DD Package) 125°C
Storage Temperature Range–65°C to 150°C
(DD Package)–65°C to 125°C
Lead Temperature
(Soldering, 10 sec) 300°C

PACKAGE/ORDER INFORMATION



*The temperature grade is identified by a label on the shipping container. Consult LTC Marketing for parts specified with wider operating temperature ranges.

3.3V ELECTRICAL CHARACTERISTICS The • denotes the specifications which apply over the full

operating temperature range, otherwise specifications are at $T_A = 25^{\circ}$ C. $V_S = 3.3V$, 0V. Figure 1 shows the DC test circuit, $V_{REF} = V_{CM} = 1V$, $V_{DIFF} = 0V$, $V_{SHDN} = V^+$, unless otherwise noted. $R_L = R_F + R_G = 1k$. (Note 6)

SYMBOL	PARAMETER	CONDITIONS		MIN	ТҮР	MAX	UNITS
V _{OS}	Input Offset Voltage	Both Inputs (Note 7)			5	20	mV
			•			25	mV
$\Delta V_{0S} / \Delta T$	Input V _{OS} Drift		•		40		μV/°C
I _B	Input Bias Current	Any Input	•		20	50	μA
I _{OS}	Input Offset Current	Either Input Pair	•		1	5	μA



3.3V ELECTRICAL CHARACTERISTICS The \bullet denotes the specifications which apply over the full operating temperature range, otherwise specifications are at $T_A = 25^{\circ}C$. $V_S = 3.3V$, 0V. Figure 1 shows the DC test circuit, $V_{REF} = V_{CM} = 1V$, $V_{DIFF} = 0V$, $V_{\overline{SHDN}} = V^+$, unless otherwise noted. $R_L = R_F + R_G = 1k$. (Note 6)

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNITS
e _n	Input Noise Voltage Density	f = 10kHz		55		nV/√Hz
in	Input Noise Current Density	f = 10kHz		0.7		pA/√Hz
R _{IN}	Input Resistance	Common Mode, V _{CM} = 0V to 1.3V		300		kΩ
CMRR	Common Mode Rejection Ratio	V _{CM} = 0V to 1.3V	• 58	83		dB
	Input Range		• 0		1.3	V
PSRR	Power Supply Rejection	V _S = 3V to 12V	• 48	54		dB
	Minimum Supply (Note 8)		• 3			V
G _E	Gain Error	$V_0 = 0.5V$ to 2V, $R_L = 1k$ $R_L = 150\Omega$	•	1 1	3 3	% %
V _{OH}	Swing High		• 3.1 • 2.5 2	3.2 2.9 2.5		V V V
V _{OL}	Swing Low	$ (V_{DIFF} = -0.1V), V_{REF}(Pin 1) = 0V, A_V = 10 \\ R_L = 1k \\ I_{SINK} = 5mA \\ I_{SINK} = 10mA $	•	8 65 40	50 120 200	mV mV mV
SR	Slew Rate	$V_{OUT} = 0.5V$ to 2.5V Measure from 1V to 2V, R _L = 150 Ω , A _V = 2		350		V/µs
FPBW	Full-Power Bandwidth (Note 9)	$V_0 = 2V_{P-P}$		55		MHz
BW	Small-Signal –3dB Bandwidth	$A_V = 2$, $R_L = 150\Omega$		65		MHz
t _r , t _f	Rise Time, Fall Time (Note 10)			125	175	ns
t _S	Settling Time to 3% Settling Time to 1%	$A_V = 2$, $\Delta V_{OUT} = 2V$, Positive Step $R_L = 150\Omega$		20 30		ns ns
	Differential Gain	$A_V = 2$, $R_L = 150\Omega$, Output Black Level = 0.6V		0.4		%
	Differential Phase	$A_V = 2$, $R_L = 150\Omega$, Output Black Level = 0.6V		0.15		Deg
I _{SC}	Short-Circuit Current	V _{OUT} = 0V, V _{DIFF} = 1V	35 25	50		mA mA
I _S	Supply Current		•	12.5	13.5 15	mA mA
	Supply Current, Shutdown	$V_{\overline{SHDN}} = 0.5V$	•	300	750	μA
VL	Shutdown Pin Input Low Voltage		•		0.5	V
V _H	Shutdown Pin Input High Voltage		• 3			V
	Shutdown Pin Current	$V_{\overline{SHDN}} = 0.5V$ $V_{\overline{SHDN}} = 3V$	•	40 3	150 10	μΑ μΑ
t _{ON}	Turn On-Time	V _{SHDN} from 0.5V to 3V		250		ns
t _{OFF}	Turn Off-Time	V _{SHDN} from 3V to 0.5V		450		ns
	Shutdown Output Leakage Current	$V_{\overline{SHDN}} = 0.5V, 0V \le V_{OUT} \le V^+$	•	0.25		μA



5V ELECTRICAL CHARACTERISTICS temperature range, otherwise specifications are at $T_A = 25^{\circ}C$. $V_S = 5V$, 0V; Figure 1 shows the DC test circuit, $V_{REF} = V_{CM} = 1V$, $V_{DIFF} = 0V$, $V_{\overline{SHDN}} = V^+$, unless otherwise noted. $R_L = R_F + R_G = 1k$. (Note 6)

SYMBOL	PARAMETER	CONDITIONS		MIN	ТҮР	MAX	UNITS
V _{OS}	Input Offset Voltage	Both Inputs (Note 7)	•		5	20 25	mV mV
$\Delta V_{0S} / \Delta T$	Input V _{OS} Drift		•		40		μV/°C
I _B	Input Bias Current	Any Input	•		20	50	uA
I _{OS}	Input Offset Current	Either Input Pair	•		1	5	uA
en	Input Noise Voltage Density	f = 10kHz			55		nV/√Hz
i _n	Input Noise Current Density	f = 10kHz			0.7		pA/√Hz
R _{IN}	Input Resistance	Common Mode, V _{CM} = 0V to 3V			300		kΩ
CMRR	Common Mode Rejection Ratio	V _{CM} = 0V to 3V	•	58	83		dB
	Input Range		•	0		3	V
PSRR	Power Supply Rejection	V _S = 3V to 12V	•	48	54		dB
	Minimum Supply (Note 8)		•	3			V
G _E	Gain Error	$V_0 = 0.5V \text{ to } 3.5V, R_L = 1k$ $R_L = 150\Omega$	•		1 1	3 3	% %
V _{OH}	Swing High	$ \begin{array}{c} (V_{DIFF} = 0.6V), \ V_{REF}(Pin \ 1) = 0V, \ A_V = 10 \\ R_L = 1k \\ R_L = 150\Omega \\ R_L = 75\Omega, \ 0^\circ C \leq T_A \leq 70^\circ C \ (Only) \end{array} $	•	4.8 3.6 2.75	4.875 4.3 3.4		V V V
V _{OL}	Swing Low	$ (V_{DIFF} = -0.1V), V_{REF} (Pin 1) = 0V, A_V = 10 \\ R_L = 1k \\ I_{SINK} = 5mA \\ I_{SINK} = 10mA $	•		8 65 110	50 120 200	mV mV mV
SR	Slew Rate	V_{OUT} = 0.5V to 3.5V Measure from 1V to 3V, R_L = 150 $\Omega,~A_V$ = 2			450		V/µs
FPBW	Full-Power Bandwidth (Note 9)	$V_0 = 2V_{P-P}$			70		MHz
BW	Small-Signal –3dB Bandwidth	$A_V = 2, R_L = 150\Omega$			70		MHz
t _r , t _f	Rise Time, Fall Time	5V, 0V; $A_V = 50$, $V_0 = 0.5V$ to 3.5V, 20% to 80%, $R_L = 1k$			125	175	ns
t _S	Settling Time to 3% Settling Time to 1%	A_V = 2, ΔV_{OUT} = 2V, Positive Step R_L = 150 $\!\Omega$			20 30		ns ns
	Differential Gain	$A_V = 2$, $R_L = 150\Omega$, Output Black Level = 1V			0.25		%
	Differential Phase	$A_V = 2$, $R_L = 150\Omega$, Output Black Level = 1V			0.04		Deg
I _{SC}	Short-Circuit Current	$ \begin{array}{l} V_{OUT} = 0V, \ V_{DIFF} = 1V \\ 0^\circ C \leq T_A \leq 70^\circ C \\ -40^\circ C \leq T_A \leq 85^\circ C \end{array} $	•	50 45 35	70		mA mA mA
I _S	Supply Current		•		13.5	14.5 16	mA mA
	Supply Current Shutdown	$V_{\overline{SHDN}} = 0.5V$	•		400	900	μA
VL	Shutdown Pin Input Low Voltage		•			0.5	V
V _H	Shutdown Pin Input High Voltage		•	4.7			V
	Shutdown Pin Current	$V_{\overline{SHDN}} = 0.5V$ $V_{\overline{SHDN}} = 4.7V$	•		60 4	200 10	μΑ μΑ

5V ELECTRICAL CHARACTERISTICS temperature range, otherwise specifications are at $T_A = 25^{\circ}C$. $V_S = 5V$, 0V. Figure 1 shows the DC test circuit, $V_{REF} = V_{CM} = 1V$, $V_{DIFF} = 0V$, $V_{\overline{SHDN}} = V^+$, unless otherwise noted. $R_L = R_F + R_G = 1k$. (Note 6)

SYMBOL	PARAMETER	CONDITIONS	_	MIN	ТҮР	MAX	UNITS
t _{ON}	Turn-On Time	V _{SHDN} from 0.5V to 4.7V			250		ns
t _{OFF}	Turn-Off Time	V _{SHDN} from 4.7V to 0.5V			450		ns
	Shutdown Output Leakage Current	$V_{\overline{SHDN}} = 0.5V, \ 0V \le V_{OUT} \le V^+$			0.25		μA

±5V ELECTRICAL CHARACTERISTICS The \bullet denotes the specifications which apply over the full operating temperature range, otherwise specifications are at $T_A = 25^{\circ}$ C. $V_S = \pm 5$ V. Figure 2 shows the DC test circuit, $V_{REF} = V_{CM} = 0$ V, $V_{DIFF} = 0$ V, $V_{\overline{SHDN}} = V^+$, unless otherwise noted. $R_L = R_F + R_G = 1$ k. (Note 6)

SYMBOL	PARAMETER	CONDITIONS		MIN	ТҮР	MAX	UNITS
V _{OS}	Input Offset Voltage	Both Inputs (Note 7)			10	25	mV
			•			30	mV
$\Delta V_{OS}/\Delta T$	Input V _{OS} Drift		•		50		μV/°C
Ι _Β	Input Bias Current	Any Input	•		25	50	μA
l _{os}	Input Offset Current	Either Input Pair	•		1	5	μA
en	Input Noise Voltage Density	f = 10kHz			55		nV/√Hz
in	Input Noise Current Density	f = 10kHz			0.7		pA/√Hz
R _{IN}	Input Resistance	Common Mode, $V_{CM} = -5V$ to $3V$			300		kΩ
CMRR	Common Mode Rejection Ratio	$V_{CM} = -5V$ to $3V$	•	58	75		dB
	Input Range		•	-5		3	V
PSRR	Power Supply Rejection	$V_{S} = \pm 2V$ to $\pm 6V$, $V_{CM} = 0V$	•	48	54		dB
G _E	Gain Error	$V_0 = -3V$ to 3V, $R_L = 1k$	•		1	3	%
		R _L = 150Ω	•		1	3	%
	Output Voltage Swing		•	±4.8 ±3.6 ±2.75	±4.875 ±4.3 ±3.4		V V V
SR	Slew Rate	V_{CM} = 0V, V_{DIFF} = -1.5V to +1.5V, V_0 = -5V to 5V Measure from -2V to 2V, R_L = 150 Ω		400	600		V/µs
FPBW	Full-Power Bandwidth	$V_0 = 6V_{P-P}$ (Note 9)			30		MHz
BW	Small-Signal –3dB Bandwidth	$A_V = 2, R_L = 150\Omega$			75		MHz
t _r , t _f	Rise Time, Fall Time	$A_V = 50, V_0 = -3V \text{ to } 3V, 20\% \text{ to } 80\%$			125	175	ns
ts	Settling Time to 3% Settling Time to 1%	$A_V = 2$, $\Delta V_{OUT} = 6V$, Positive Step $R_L = 150\Omega$			25 35		ns ns
	Differential Gain	$A_V = 2$, $R_L = 150\Omega$, Output Black Level = 0V			0.2		%
	Differential Phase	$A_V = 2$, $R_L = 150\Omega$, Output Black Level = 0V			0.15		Deg
I _{SC}	Short-Circuit Current	$\begin{split} V_{OUT} &= 0V, \ V_{DIFF} = \pm 1V \\ 0^{\circ}C &\leq T_A \leq 70^{\circ}C \\ -40^{\circ}C &\leq T_A \leq 85^{\circ}C \end{split}$	•	50 45 35	70		mA mA mA
	Supply Current Shutdown	$V_{\overline{SHDN}} = -4.5V$			650	1400	μA
I _S	Supply Current		•		14	16.5 18.5	mA mA
VL	Shutdown Pin Input Low Voltage		•			-4.5	V
V _H	Shutdown Pin Input High Voltage			4.7			V



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 \pm **5V ELECTRICAL CHARACTERISTICS** The \bullet denotes the specifications which apply over the full operating temperature range, otherwise specifications are at T_A = 25°C. V_S = ±5V. Figure 2 shows the DC test circuit, V_{REF} = V_{CM} = 0V, V_{DIFF} = 0V, V_{SHDN} = V⁺, unless otherwise noted. R_L = R_F + R_G = 1k. (Note 6)

SYMBOL	PARAMETER	CONDITIONS		MIN	ТҮР	MAX	UNITS
	Shutdown Pin Current	$V_{\overline{SHDN}} = -4.5V$	•		85	250	μA
		$V_{\overline{SHDN}} = 4.7V$	•		3	10	μA
t _{ON}	Turn-On Time	$V_{\overline{SHDN}}$ from -4.5V to 4.7V			200		ns
t _{OFF}	Turn-Off Time	$V_{\overline{SHDN}}$ from 4.7V to -4.5V			400		ns
	Shutdown Output Leakage Current	$V_{\overline{SHDN}} = -4.5V, V^- \le V_{OUT} \le V^+$	•		0.25		μA

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

Note 2: The inputs are protected from ESD with diodes to the supplies.

Note 3: A heat sink may be required to keep the junction temperature below absolute maximum.

Note 4: The LT6552C/LT6552I are guaranteed functional over the temperature range of -40° C to 85° C.

Note 5: The LT6552C is guaranteed to meet specified performance from 0°C to 70°C and is designed, characterized and expected to meet specified performance from -40°C to 85°C, but is not tested or QA sampled at these temperatures. The LT6552I is guaranteed to meet specified performance from - 40°C to 85°C.

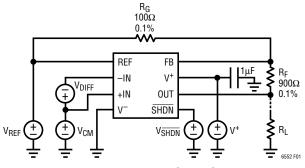


Figure 1. 3.3V, 5V DC Test Circuit

Note 6: When $R_L = 1k$ is specified, the load resistor is $R_F + R_G$, but when R_L = 150 Ω or R_L = 75 Ω is specified, then an additional resistor of that value is added to the output.

Note 7: V_{OS} measured at the output (Pin 6) is the contribution from both input pairs and is input referred.

- Note 8: Minimum supply is guaranteed by the PSRR test.
- Note 9: Full power bandwidth is calculated from the slew rate. FPBW = $SR/2\pi Vp$

Note 10: $V_S = 3.3V$, t_r and t_f limits are guaranteed by correlation to $V_{\rm S}$ = 5V and ±5V tests.

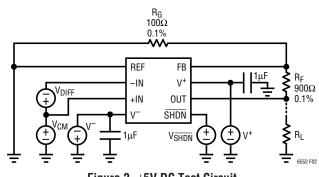
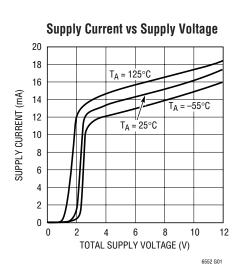
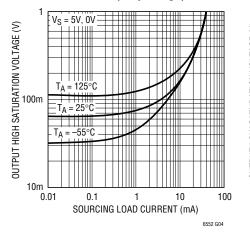


Figure 2. ±5V DC Test Circuit

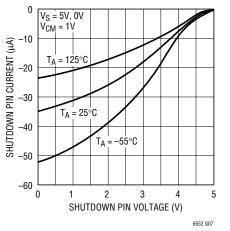


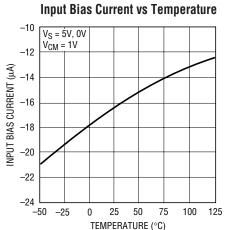


Output Saturation Voltage vs Load Current (Output High)



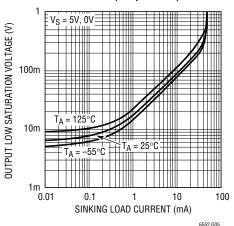
Shutdown Pin Current vs Shutdown Pin Voltage



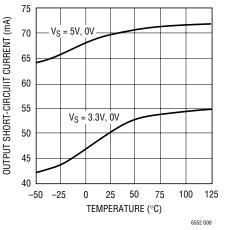


6552 G02

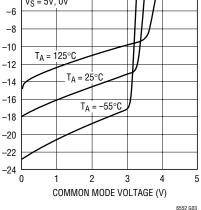
Output Saturation Voltage vs Load Current (Output Low)



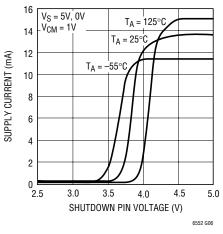
Output Short-Circuit Current vs Temperature



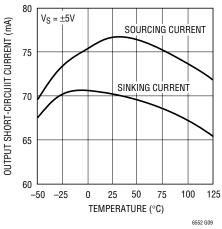
Input Bias Current vs Common Mode Voltage -4 V_S = 5V, 0V -6 -8 INPUT BIAS CURRENT (µA) -10 $T_A = 125^{\circ}C$ -12 $T_{A} = 25^{\circ}$ -14 -16 $T_A = -55^{\circ}C$ -18 -20 -22 -24



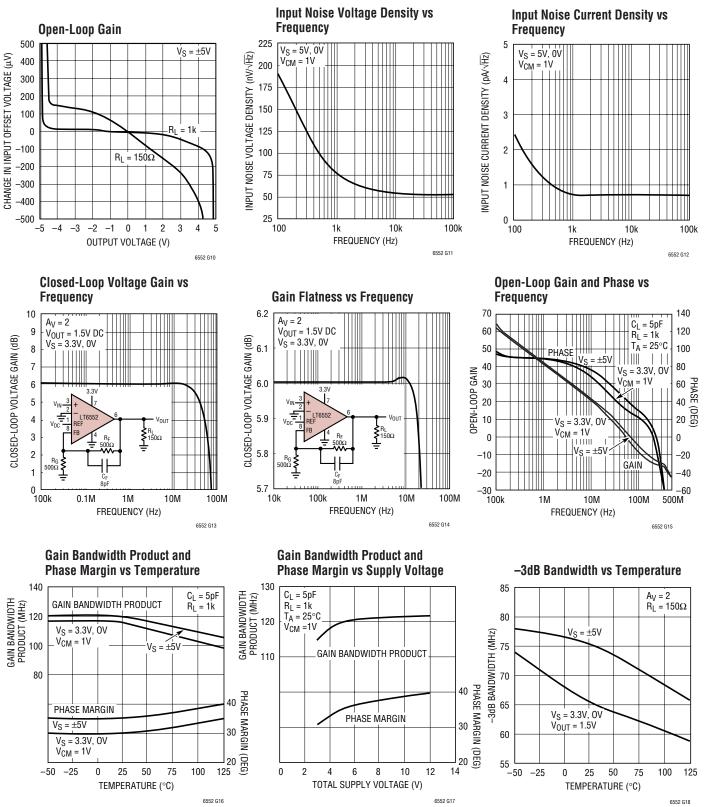
Supply Current vs Shutdown Pin Voltage



Output Short-Circuit Current vs Temperature

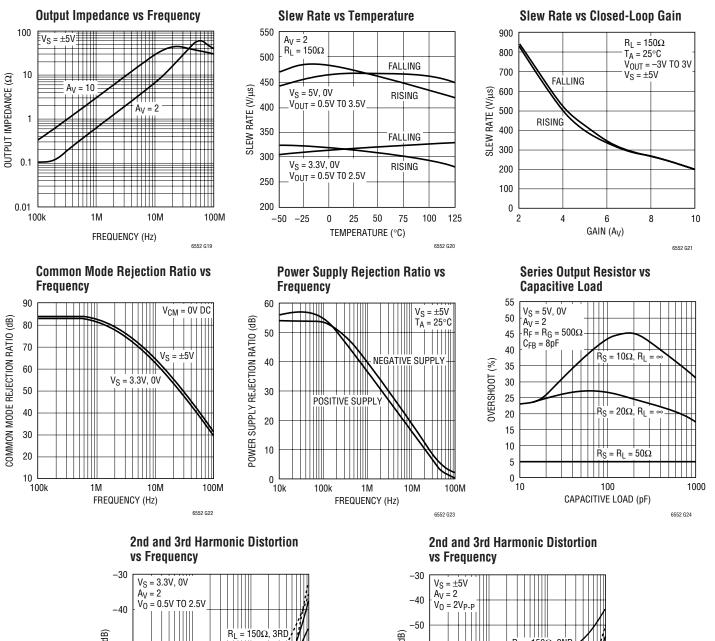


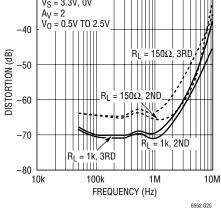


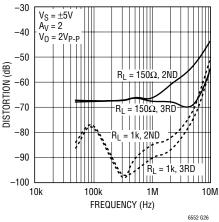


6552f

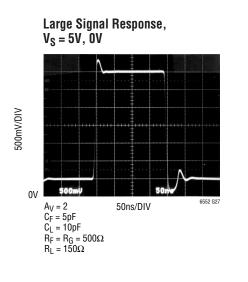


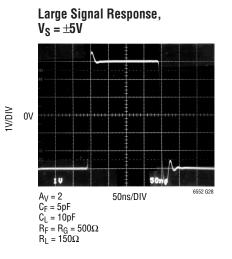




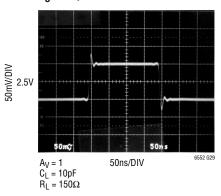


6552f

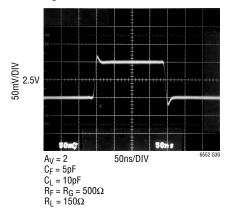




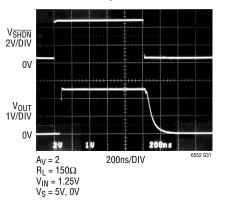
Small Signal Response, $V_S = 5V$, 0V



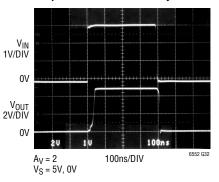
Small Signal Response, V_S = 5V, 0V



Shutdown Response



Output Overdrive Recovery





The LT6552 is a video difference amplifier with two pairs of high impedance inputs. The primary purpose of the LT6552 is to convert high frequency differential signals into a single-ended output, while rejecting any common mode noise. In the simplest configuration, one pair of inputs is connected to the incoming differential signal, while the other pair of inputs is used to set amplifier gain and DC level. The device will operate on either single or dual supplies and has an input common mode range which includes the negative supply. The common mode rejection ratio is greater than 60dB at 10MHz. Feedback is applied to Pin 8 and the LT6552's transient response is optimized for gains of 2 or greater.

Figure 3 shows the single supply connection. The amplifier gain is set by a feedback network from the output to Pin 8 (FB). A DC signal applied to Pin 1 (REF) establishes the output quiescent voltage and the differential signal is applied to Pins 2 and 3.

Figure 4 shows several other connections using dual supplies. In each case, the amplifier gain is set by a feedback network from the output to Pin 8 (FB).

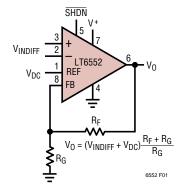


Figure 3

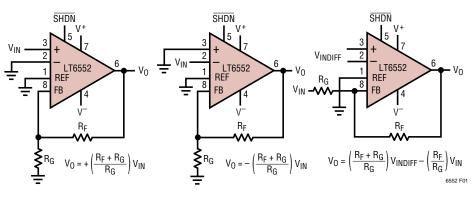


Figure 4



Amplifier Characteristics

Figure 5 shows a simplified schematic of the LT6552. There are two input stages; the first one consists of transistors Q1 to Q8 for the (+) and (–) inputs while the second input stage consists of transistors Q9 to Q16 for the reference and feedback inputs. This topology provides high slew rates at low supply voltages. The input common mode range extends from ground to typically 1.75V from V_{CC} , and is limited by $2V_{BE}$'s plus a saturation voltage of current sources I1-I4. Each input stage drives the degeneration resistors of PNP and NPN current mirrors, Q17 to Q20, that convert the differential signals into a single-ended output. The complementary drive generator supplies current to the output transistors that swing from rail-to-rail.

The current generated through R1 or R2, divided by the capacitor CM, determines the slew rate. Note that this current, and hence the slew rate, are proportional to the magnitude of the input step. The input step equals the output step divided by the closed-loop gain. The highest slew rates are therefore obtained in the lowest gain configurations. The Typical Performance Characteristic Curve of Slew Rate vs Closed-Loop Gain shows the details.

ESD

The LT6552 has reverse-biased ESD protection diodes on all inputs and outputs, as shown in Figure 5. If these pins are forced beyond either supply, unlimited current will flow through these diodes. If the current is transient in nature and limited to 100mA or less, no damage to the device will occur.

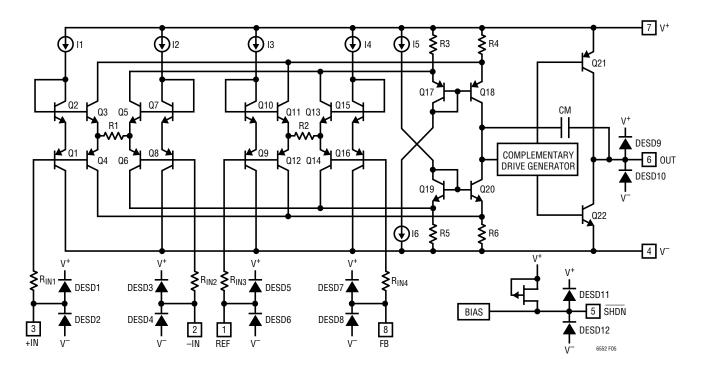


Figure 5. Simplified Schematic



Layout and Passive Components

With a bandwidth of 75MHz and a slew rate of 600V/ μ s, the LT6552 requires special attention to board layout and supply bypassing. Use a ground plane, short lead lengths and RF quality low ESR supply bypass capacitors. The positive supply pin should be bypassed with a small capacitor (typically 0.1 μ F) within 1 inch of the pin. When driving loads greater than 10mA, an additional 4.7 μ F electrolytic capacitor should be used. When using split supplies, the same is true for the negative supply pin. The parallel combination of the feedback resistor and gain setting resistor on Pin 8 (FB) can combine with the input capacitance to form a pole which can degrade stability. In general, use feedback resistors of 1k or less.

Operating with Low Closed-Loop Gains

The LT6552 has been optimized for closed-loop gains of 2 or greater. For a closed-loop gain of 2 the response peaks about 3dB. Peaking can be reduced by using low value feedback resistors, and can be eliminated by placing a capacitor across the feedback resistor (feedback zero). Figure 6 shows the closed-loop gain of 2 frequency response with various values of the feedback capacitor. This peaking shows up as a time domain overshoot of 40%; with an 8pF feedback capacitor the overshoot is eliminated. Figures 7A and 7B show the Small Signal Response of the LT6552 with and without an 8pF feedback capacitor.

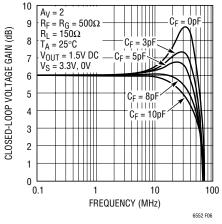
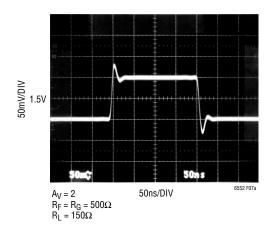
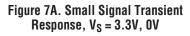


Figure 6. Closed-Loop Gain vs Frequency





Downloaded from Arrow.com.

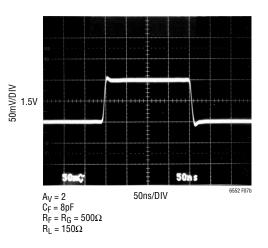


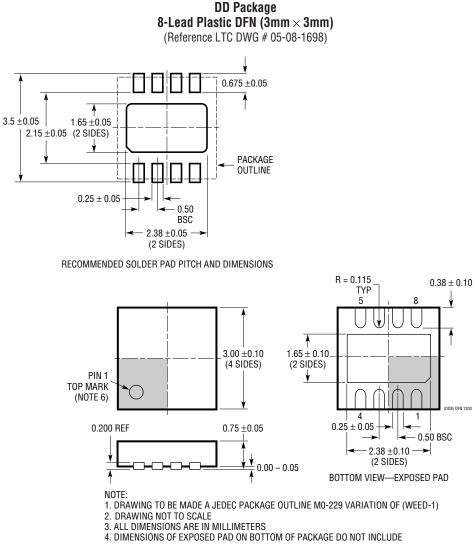
Figure 7B. Small Signal Transient Response, V_S = 3.3V, 0V with 8pF Feedback Capacitor $% \mathcal{V}_S$

SHDN Pin

The LT6552 includes a shutdown feature that disables the part, reducing quiescent current and making the output high impedance. The part can be shutdown by bringing the SHDN pin within 0.5V of V⁻. When shutdown the supply current is typically 400μ A and the output leakage current

is 0.25 μ A (V⁻ \leq V_{OUT} \leq V⁺). In normal operation the SHDN can be tied to V⁺ or left floating; if the pin is left unconnected, an internal FET pull-up will keep the LT6552 fully operational.

PACKAGE DESCRIPTION



MOLD FLASH. MOLD FLASH, IF PRESENT, SHALL NOT EXCEED 0.15mm ON ANY SIDE

5. EXPOSED PAD SHALL BE SOLDER PLATED 6. SHADED AREA IS ONLY A REFERENCE FOR PIN 1 LOCATION

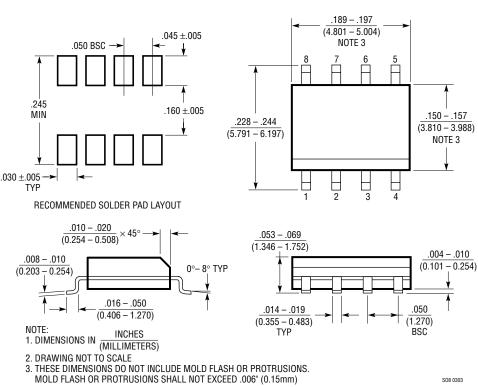
ON TOP AND BOTTOM OF PACKAGE



6552f

S08 0303

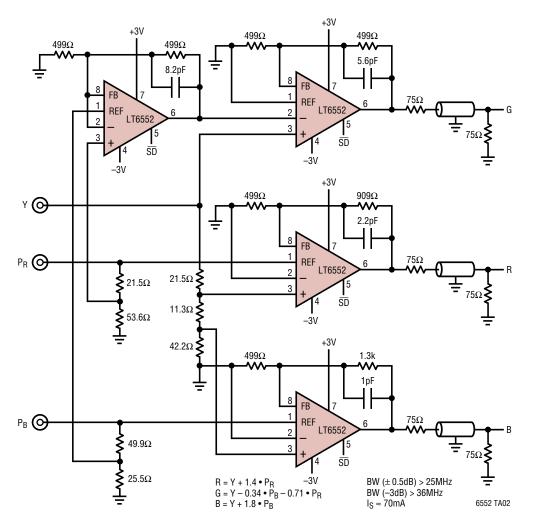
PACKAGE DESCRIPTION



S8 Package 8-Lead Plastic Small Outline (Narrow .150 Inch) (Reference LTC DWG # 05-08-1610)



TYPICAL APPLICATION



YP_BP_R to RGB Video Converter

RELATED PARTS

PART NUMBER	DESCRIPTION	COMMENTS
LT1193	A _V = 2 Video Difference Amp	80MHz BW, 500V/µs Slew Rate, Shutdown
LT1675	RGB Multiplexer with Current Feedback Amplifiers	-3dB Bandwidth = 250MHz, 100MHz Pixel Switching
LT6205/LT6206/LT6207	Single/Dual/Quad Single Supply 3V, 100MHz Video Op Amps	450V/µs Slew Rate, Rail-to-Rail Output, Input Common Modes to Ground
LT6550/LT6551	3.3V Triple and Quad Video Amplifiers	Internal Gain of 2, 110MHz –3dB Bandwidth, Input Common Modes to Ground