PA25DIE

ABSOLUTE MAXIMUM RATINGS

SUPPLY VOLTAGE, $+V_S$ to $-V_S$	40V
OUTPUT CURRENT, continuous	2.5A
INPUT VOLTAGE, differential	$\pm V_S$
INPUT VOLTAGE, common mode	$+V_S$ $-V_S$–0.3
TEMPERATURE, junction	150°C

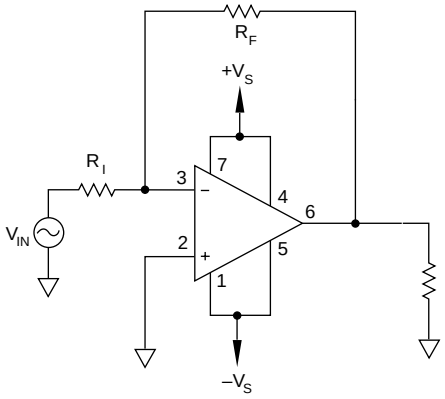
NOTE: Refer to parent product data sheet PA21/25/26 for typical AC electrical characteristics, precautions, applications and other test parameters.

TYPICAL SPECIFICATIONS

PARAMETER	TEST CONDITIONS[1]	MIN	TYP	MAX	UNITS
POWER SUPPLY VOLTAGE	$+V_S$ to $-V_S$	5	12	40	V
OFFSET VOLTAGE	V_{OUT} = 0, I_{OUT} = 0		±2		mV
QUIESCENT CURRENT	$+I_S$ Total		35		mA
BIAS CURRENT	V_{OUT} = 0		80		nA
OPEN LOOP GAIN	F = 0 Hz		100		dB
COMMON MODE REJECTION RATIO	Delta V_{CM} = 3V		85		dB
SLEW RATE	A =1, V_{OUT} = $6V_{P-P}$		1		V/µs
CHANNEL SEPARATION	I_{OUT} = 100mA, F = 1kHz		60		dB
VOLTAGE SWING	I_{OUT} = 1A, V_{CC} = ±6V		10.0		V_{P-P}
VOLTAGE SWING	I_{OUT} = 1A, V_{CC} = V_{CC} = $\pm 6V_{BOOST}$ = ±9V		10.5		V_{P-P}
POWER SUPPLY REJECTION RATIO	V_S = ±15V		80		dB

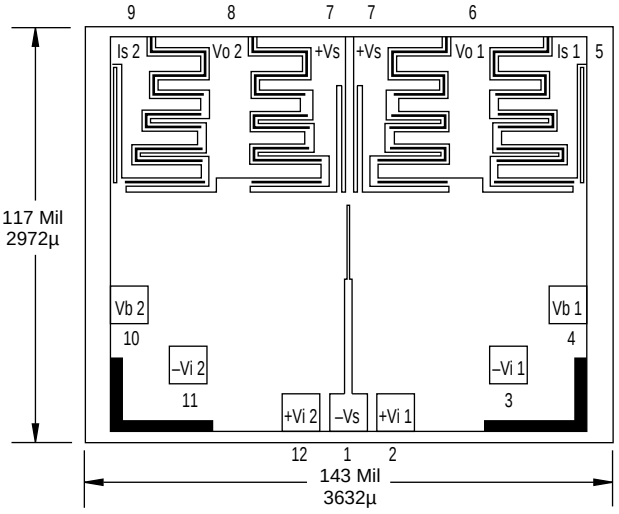
NOTES: 1. V_S = ±15 V unless otherwise stated. T_A = 25°C.

TYPICAL EXTERNAL CONNECTIONS



Pad	Function
2	Non-inverting Input —AMP 1
3	Inverting Input— AMP 1
4	V_{BOOST} Input — AMP 1
5	Current Sense Output — AMP 1
6	Output — AMP 1
12	Non-inverting Input —AMP 2
11	Inverting Input— AMP 2
10	V_{BOOST} Input — AMP 2
9	Current Sense Output — AMP 2
8	Output — AMP 2
7	Positive Supply Input — Both Amplifiers
1	Negative Supply Input — Both Amplifiers

DIE LAYOUT



Thickness: 18 Mil ±2 Mil
Backside: Ni Ag 20,000 Å (min)
Bond pad: 10 Mil sq (254µ)
NOTE: Backside at $-V_S$ potential.

