

GSCLM358

DUAL OPERATIONAL AMPLIFIER

Description

The GSCLM358 consists of two independent high gain, internally frequency compensated operational amplifier. It can be operated from a Single power supply and also split power supplies.

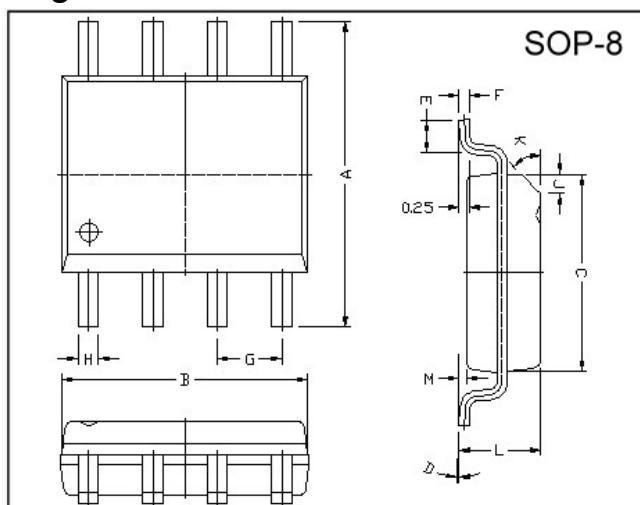
Features

- *Internally frequency compensated for unity gain.
- *Wide power supply range 3V – 32V.
- *Input common – mode voltage range include ground.
- *Large DC voltage gain.

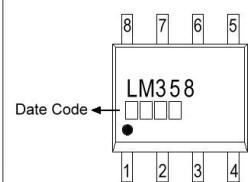
Applications

- *General purpose amplifier.
- *Transducer amplifier.

Package Dimensions

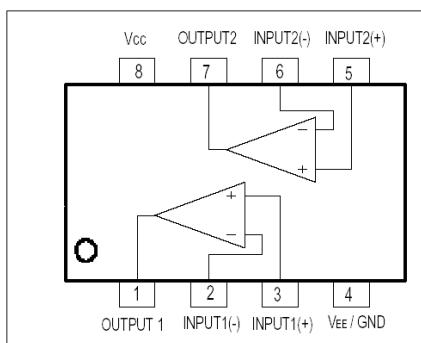


Marking :

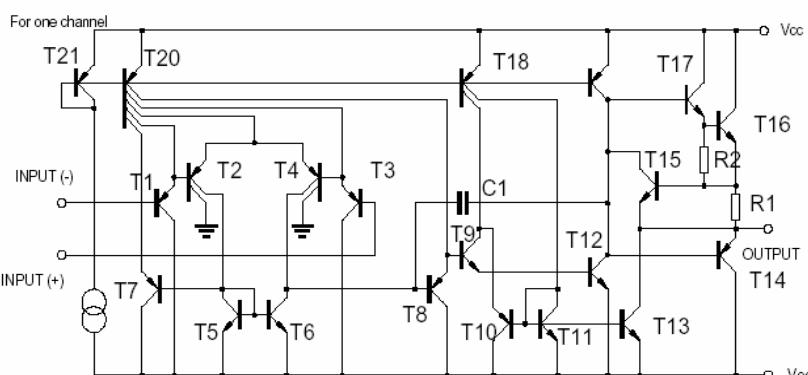


REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	5.80	6.20	M	0.10	0.25
B	4.80	5.00	H	0.35	0.49
C	3.80	4.00	L	1.35	1.75
D	0°	8°	J	0.375	REF.
E	0.40	0.90	K	45°	
F	0.19	0.25	G	1.27 TYP.	

Pin Configurations



BLOCK DIAGRAM



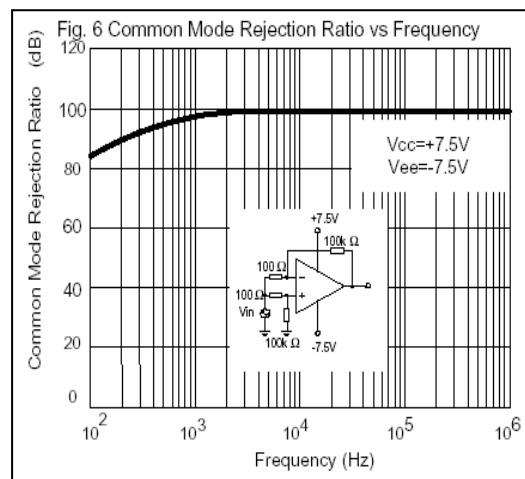
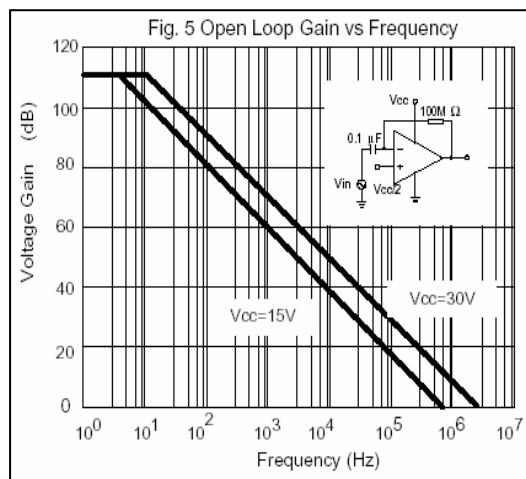
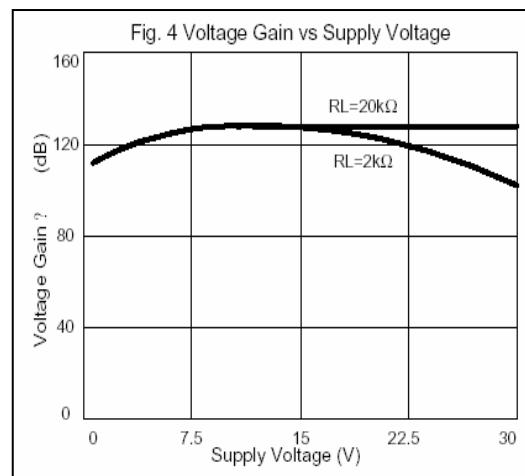
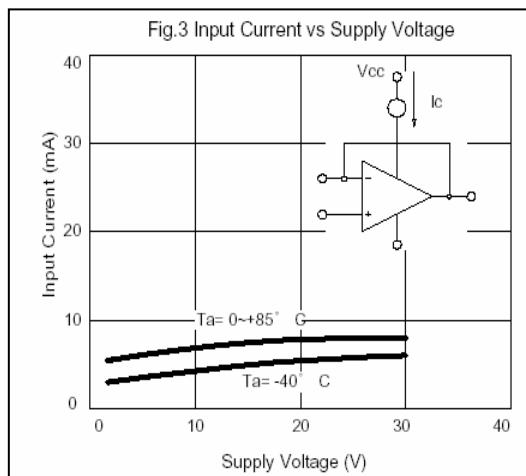
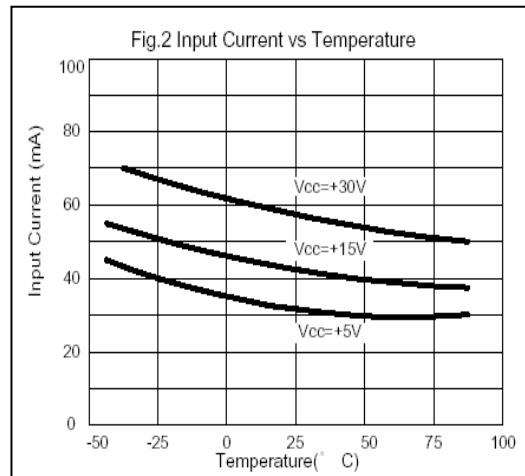
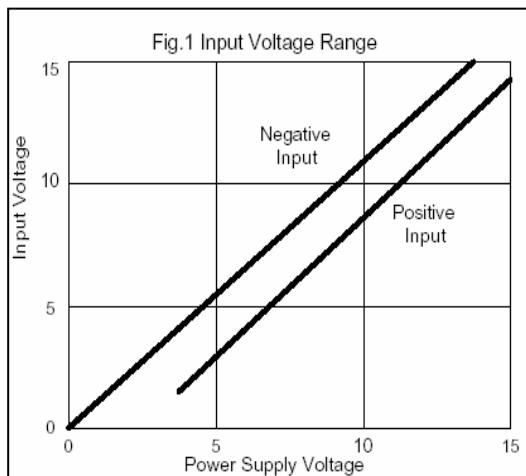
Absolute Maximum Ratings at Ta = 25°C

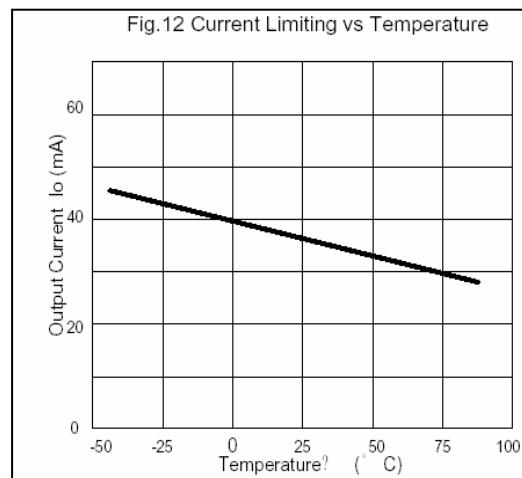
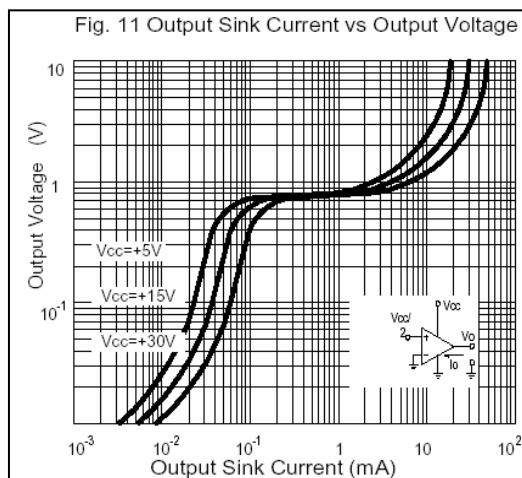
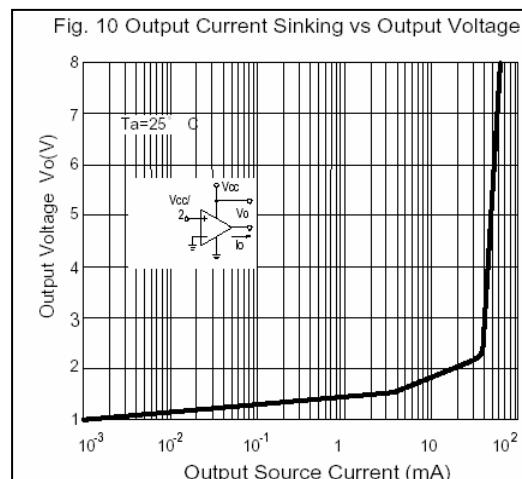
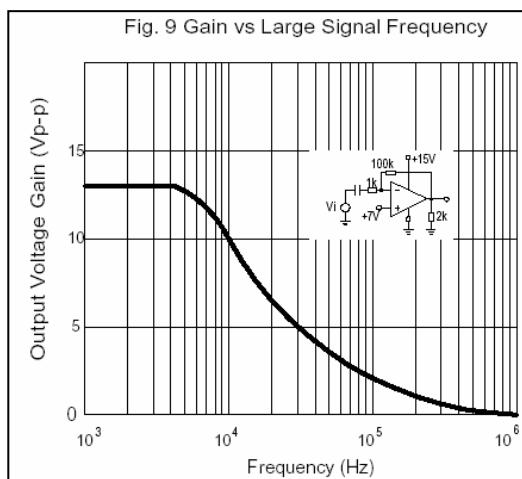
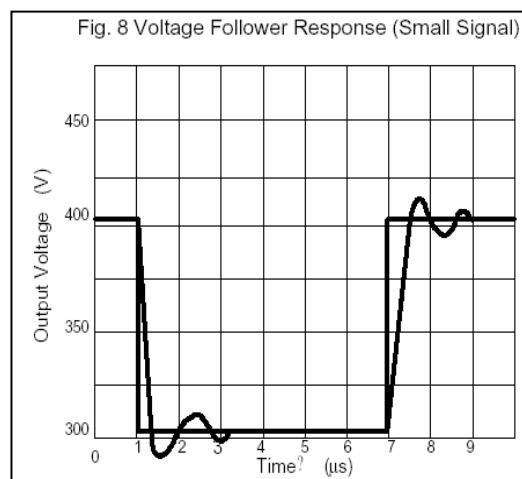
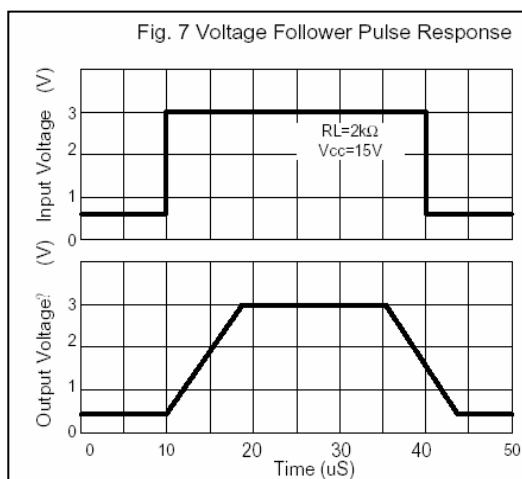
Parameter	Symbol	Value	Unit
Supply Voltage	Vcc	+16 or 32	V
Differential Input Voltage	VI(DIFF)	+32	V
Input Voltage	VI	-0.3 ~+32	V
Output Short to Ground		Continuous	
Operating Temperature Range	TOPR	0~+70	°C
Storage Temperature Range	TSTG	-65~+150	°C

Electrical Characteristics (Vcc=5.0V VEE=GND,TA=25°C,unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Input Offset Voltage	VIO	VCM=0V to VCC-1.5V VO(P)=1.4V,RS=0Ω		2.9	7.0	mV
Input Offset Current	IIO			5	50	nA
Input Bias Current	IBIAS			45	250	nA
Input Common Mode Voltage	VI(R)	VCC=30V	0		VCC-1.5	V
Power Supply Current	ICC	RL=∞,VCC=30V		0.8	2.0	mA
		RL=∞,Full Temperature Range	-	0.5	1.2	mA
Large Signal Voltage Gain	GV	VCC=15V,RL>=2KΩ VO(P)=1V to 11V	25	100	-	V/mV
Output Voltage Swing	VO(H)	VCC=30V,RL=2KΩ	26			V
		VCC=30V,RL=10KΩ	27	28		V
	VO(L)	VCC=5V,RL>=10KΩ		5	20	mV
Common Mode Rejection Ratio	CMRR		65	80		dB
Power Supply Rejection Ration	PSRR		65	100		dB
Channel Separation	CS	F=1KHZ to 20KHZ		120		dB
Short Circuit Current to Ground	ISC			40	60	mA
Output Current	ISOURCE	VI(+)= 1V,VI(-)=0V VCC=15V,VO(P)=2v	10	30		mA
	ISINK	VI(+)=0V,,VI(-)=1V VCC=15V,VO(P)=2V	10	15		mA
		VI(+)=0V,,VI(-)=1V VCC=15V,VO(P)=200mV	12	100		μA
Differential Input Voltage	VI(DIFF)				VCC	V

Characteristics Curve





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