AN6567, AN6568, AN6568S

Dual High Output Current Operational Amplifiers

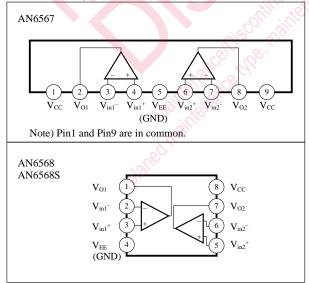
Overview

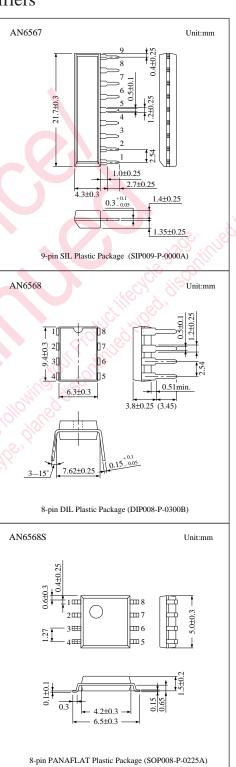
The AN6567, the AN6568, and the AN6568S are high output current dual operational amplifiers which allows single power supply operation, realizing low current consumption, high slew rate and high output current.

■ Features

- Single supply operating
- High output current:Io=70mA min.
- Low supply current:Icc=5mA typ.
- High slew rate:SR= $1.0V/\mu$ s typ.
- Built-in input circuit protection
- Built-in phase compensation circuit

■ Block Diagram





■ Pin Descriptions

⟨AN6567⟩

Pin No.	Pin name				
1	V_{CC}				
2	Ch.1 output				
3	Ch.1 inverting input				
4	Ch.1 non inverting input				
5	V _{EE} (GND)				
6	Ch.2 non inverting input				
7	Ch.2 inverting input				
8	Ch.2 output				
9	V _{CC}				

(AN6568, AN6568S)

Pin No.	Pin name
1	Ch.1 output
2	Ch.1 inverting input
3	Ch.1 non inverting input
4	V _{EE} (GND)
5	Ch.2 non inverting input
6	Ch.2 inverting input
7	Ch.2 output
8	V _{CC}

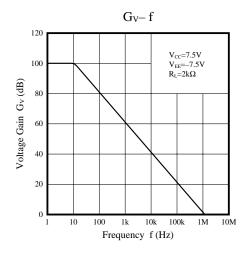
■ Absolute Maximum Ratings (Ta=25°C)

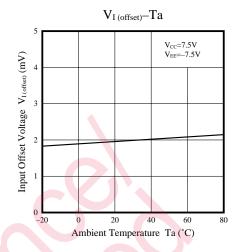
Parameter		Symbol	Rating	Unit	
Voltage	Supply voltage	V _{CC}	18 (±9)	V	
	Differential input voltage	V _{ID}	18	&v &	
	Common-mode input voltage	V _{ICM}	- 0.3 to +18	NUP AUD	
Power dissipation	AN6567, AN6568	- P _D	500	0,5	
	AN6568S		360	mW	
Operating ambient temperature		$T_{ m opr}$	-20 to +75	°C	
Storage temperature	AN6567, AN6568	$T_{ m stg}$	-55 to +150	°C	
	AN6568S		-55 to +125		

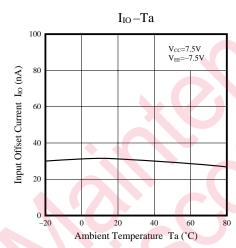
■ Electrical Characteristics (V_{CC}=15V, Ta=25°C)

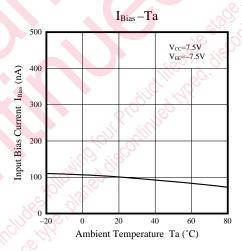
Parameter	Symbol	Condition	min	typ	max	Unit
Input offset voltage	V _{I (offset)}	$R_S \leq 50\Omega$		2	5	mV
Input offset current	I_{IO}	$R_S \leq 50\Omega$		30	100	nA
Input bias current	I_{Bias}	$R_S \leq 50\Omega$		100	500	nA
Voltage gain	Gv	$R_L=2k\Omega$	88	100		dB
Maximum output voltage I	V _{O (max.)}	$R_L \ge 2k\Omega$, $V_{CC} = 5V$	3.3			V
Maximum output voltage II	V _{O (max.)}	$I_0=70$ mA, $V_{CC}=5$ V	3.0			V
Common-mode input voltage width	V _{CM}		$V_{CC}-2$			V
Common-mode rejection ratio	CMR	Mo	80	90		dB
Supply voltage rejection ratio	SVR	ठ [°]	80	90		dB
Supply current	I_{cc}	$R_L=\infty$, $V_{CC}=8.3V$		5		mA
Slew rate	SR	$R_L \ge 2k\Omega$, $A_V = 1$		1.0		V/µs
Zero-cross frequency	f _(T)			1.3	_	MHz

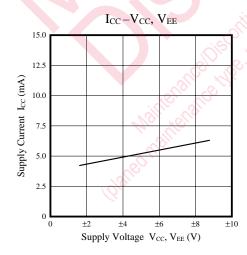
■ Characteristics Curve

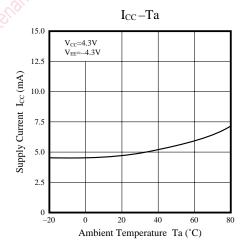




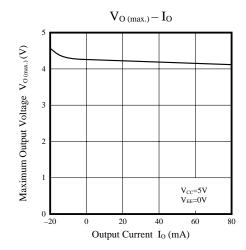


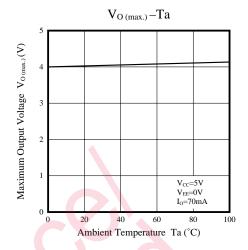






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