Absolute Maximum Ratings

Parameter	Symbol	KA5532	Unit
Power Supply Voltage	Vcc	±22	V
Differential Input Voltage	V(DIFF)	±13	V
Input Voltage	VI	Supply Voltage	V
Power Dissipation, T _A = 25°C 8-DIP	PD	1100	mW
Operating Temperature Range	TOPR	0 ~ +70	°C

Thermal Data

Parameter	Symbol	Value	Unit
Thermal Resistance Junction-Ambient Max. 8-DIP	Rθja	110	°C/W

Electrical Characteristics

 $(V_{CC} = 15V, V_{EE} = -15V, T_{A} = 25^{\circ}C)$

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
Input Offset Voltage	Vio	-	•	0.5	4.0	mV
Input Offset Current	lio	-	-	10	150	nA
Input Bias Current	IBIAS	-	-	200	800	nA
Supply Current	Icc	-	-	6.0	16	mA
Input Voltage Range	VI(R)	-	±12	±13	-	V
Common Mode Rejection Range	CMRR	T _A = 25°C	70	100	-	dB
Power Supply Rejection Ratio	PSRR	T _A = 25°C	80	100	-	dB
Output Voltage Swing	VO(P-P)	RL≥600Ω	±12	±13	-	V
Input Resistance	Rı	T _A = 25°C	30	300	-	ΚΩ
Short Circuit Current	Isc	-	-	38	-	mA
Overshoot	OS	R _L =600Ω, C _L =100pF	-	10	20	%
Voltage Gain	Gv	f = 10KHz	2	2.2	-	V/mV
Gain Bandwidth Product	GBW	$C_L = 100 pF, R_L = 600 \Omega$	8	10	-	MHz
Slew Rate	SR	R _L =1K, C _L =100pF, R _L =600Ω	6	8.0	-	V/μs
Input Noise Voltage	e _N	f _O = 30Hz f _O = 1KHz	-	8.0 5.0	-	nV/√Hz

Typical Performance Characteristics

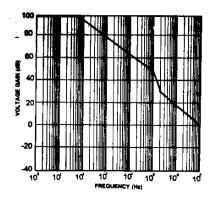


Figure 1. Open Loop Frequency Response

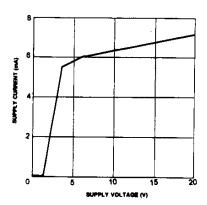


Figure 3. Supply Current vs Supply Voltage

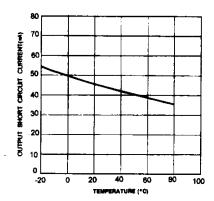


Figure 5. Output Circuit Current vs Temperature

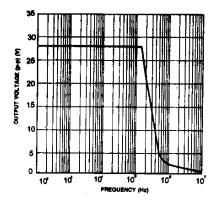


Figure 2. Large Signal Frequency Response

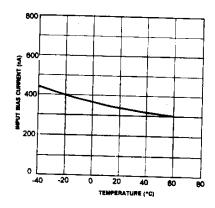


Figure 4. Input Bias Current vs Temperature

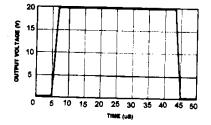
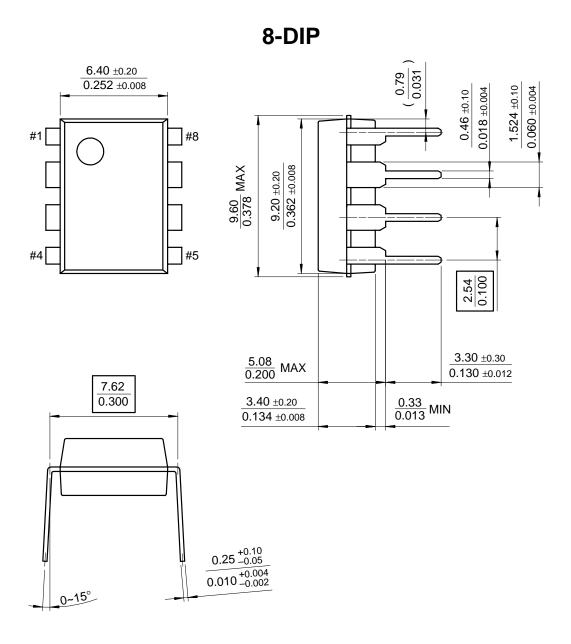


Figure 6. Slew Rate

Mechanical Dimensions

Package

Dimensions in millimeters



Ordering Information

Product Number	Package	Operating Temperature		
KA5532	8-DIP	0 ~ + 70°C		

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- A critical component in any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

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