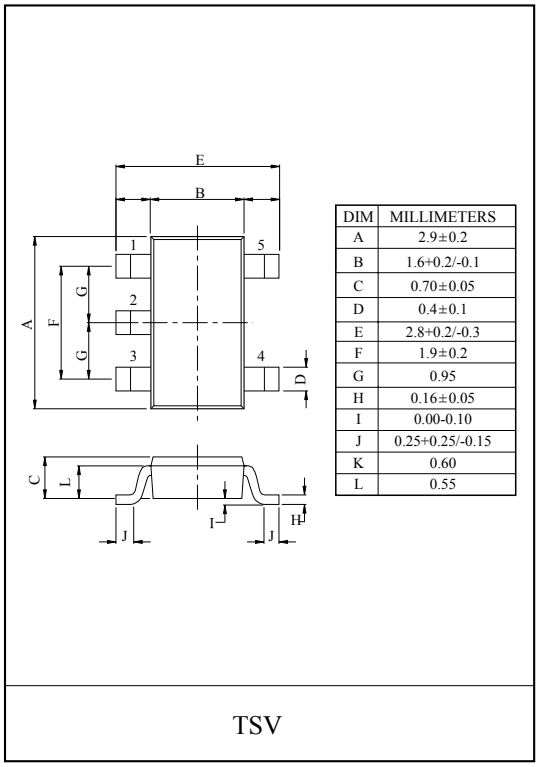
KIA75S558F

BIPOLAR LINEAR INTERGRATED CIRCUIT

SINGLE LOW NOISE OPERATIONAL AMPLIFIER

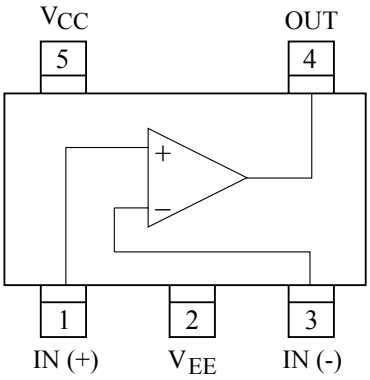
- Internal Frequency Compensation Type.
- Wide Band Range : f_T=3MHz (Typ.).
- Suitable Application for Active Filter and Equalizer Amplifier.



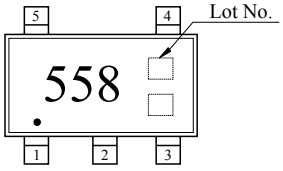
DIM	MILLIMETERS
A	2.9±0.2
B	1.6+0.2/-0.1
C	0.70±0.05
D	0.4±0.1
E	2.8+0.2/-0.3
F	1.9±0.2
G	0.95
H	0.16±0.05
I	0.00-0.10
J	0.25+0.25/-0.15
K	0.60
L	0.55

TSV

PIN CONNECTION (TOP VIEW)



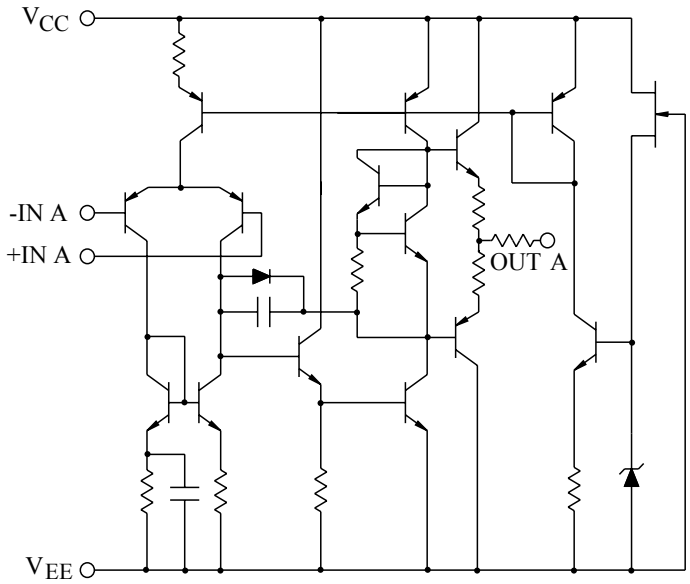
Marking (TOP VIEW)



MAXIMUM RATING (Ta=25℃)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Supply Voltage	V_{CC} V_{EE}	36,+18 or 0,-18	V
Differential Voltage	D_{VIN}	±30	V
Input Voltage	V_{IN}	V_{CC} ~ V_{EE}	V
Power Dissipation	P_D	200	mW
Operating Temperature	T_{opr}	-40 ~ 85	℃
Storage Temperature	T_{stg}	-55 ~ 125	℃

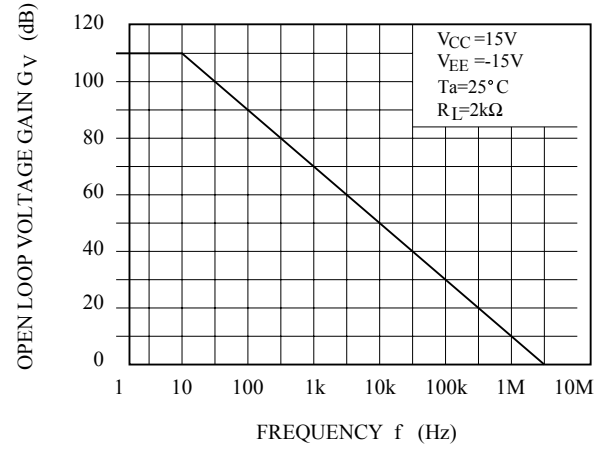
EQUIVALENT CIRCUIT



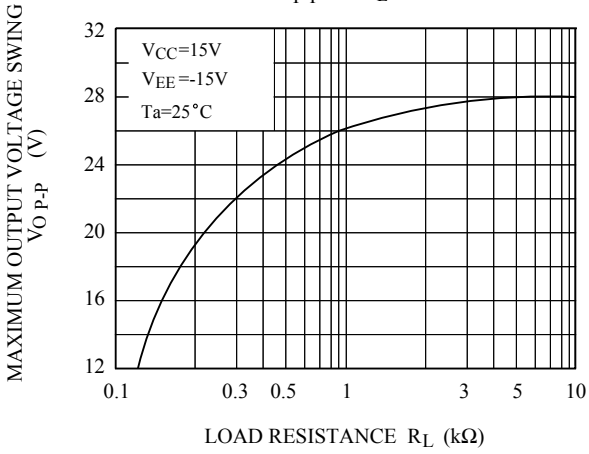
ELECTRICAL CHARACTERISTICS (V_{CC}=15V, V_{EE}=-15V, Ta=25℃)

CHARACTERISTIC	SYMBOL	TEST-CIRCUIT	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Input Offset Voltage	V_{IO}	-	Rg≦10kΩ	-	0.5	6	mV
Input Offset Current	I_{IO}	-	-	-	5	200	nA
Input Bias Current	I_I	-	-	-	60	500	nA
Common Mode Input Voltage	CMV_{IN}	-	-	±12	±14	-	V
Maximum Output Voltage	V_{OM}	-	R_L=10kΩ	±12	±14	-	V
	V_{OMR}		R_L=2kΩ	±10	±13	-	
Source Current	I_{source}	-	-	27	-	-	mA
Sink Current	I_{sink}	-	-	27	-	-	mA
Voltage Gain (Open Loop)	G_V	-	V_{OUT}=±10V, R_L=2kΩ	86	100	-	dB
Common Mode Input Signal Rejection Ratio	CMRR	-	Rg≦10kΩ	70	90	-	dB
Supply Voltage Rejection Ratio	SVRR	-	Rg≦10kΩ	-	30	150	μV/V
Slew Rate	SR	-	G_V=1, R_L=2kΩ	-	1.0	-	V/μS
Unity Gain Cross Frequency	f_T	-	Open Loop	-	3.0	-	MHz
Supply Current	I_{CC}, I_{EE}	-	-	-	2.5	4.0	mA
Equivalent Input Noise Voltage	V_{NI}	-	R_S=1kΩ, f=30Hz~30kHz	-	2.5	-	μV_{rms}

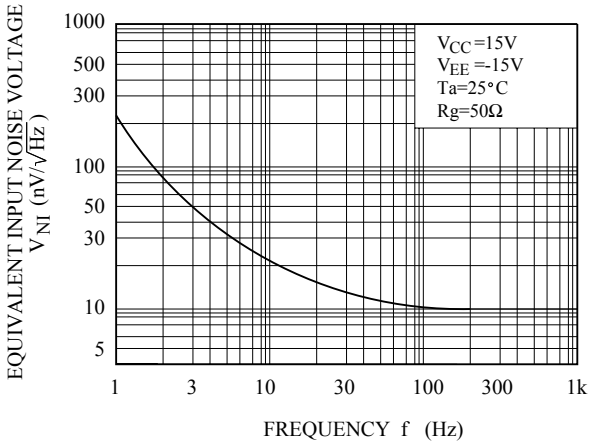
G_V - f



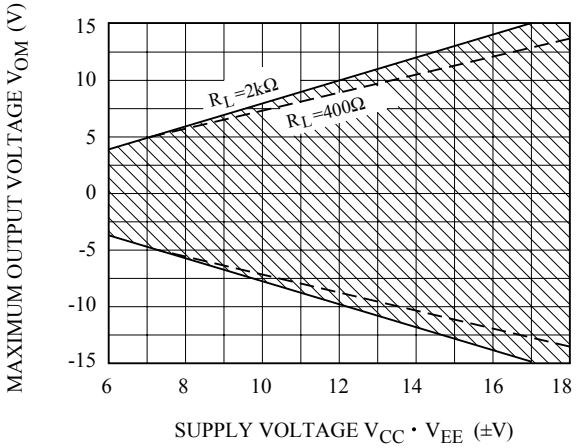
$V_{O\,P\text{-}P}$ - R_L



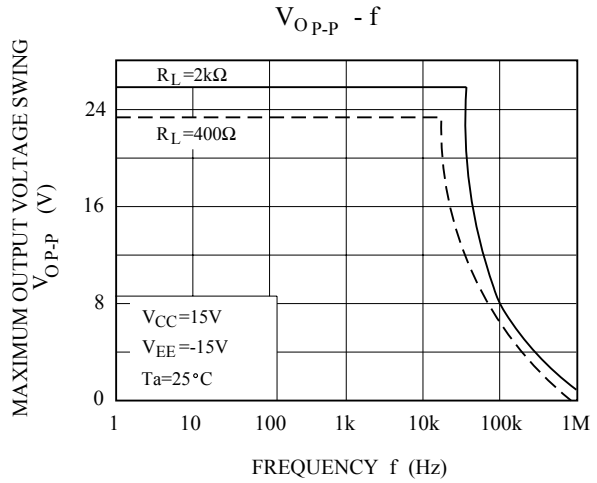
V_{NI} - f



V_{OM} -V_{CC} ,V_{EE}



$V_{O\,P\text{-}P}$ - f



I_I - Ta

