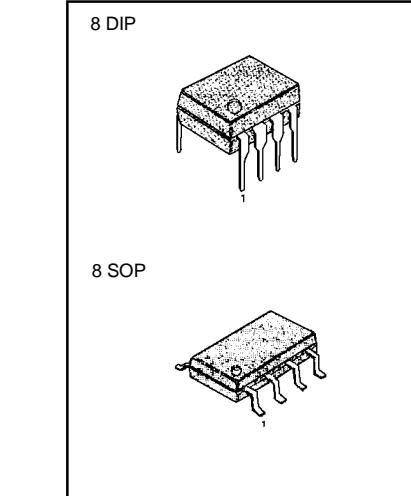
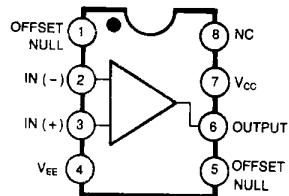


**SINGLE OPERATIONAL AMPLIFIER**

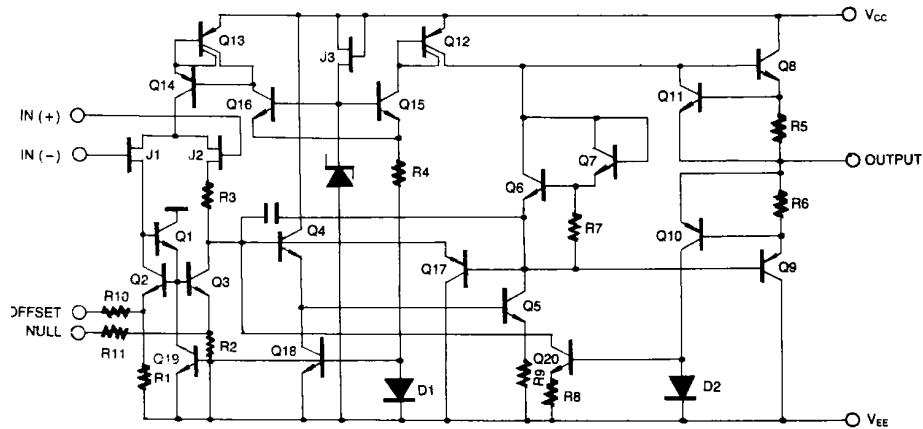
The KF351 is JFET input operational amplifier with an internally compensated input offset voltage. The JFET input device provides wide bandwidth, low input bias currents and offset currents.

**FEATURES**

- Internally trimmed offset voltage: 10mV
- Low input bias current : 50pA
- Wide gain bandwidth : 4MHz
- High slew rate : 13V/ $\mu$ s
- High input impedance :  $10^{12}\Omega$

**BLOCK DIAGRAM****ORDERING INFORMATION**

Device	Package	Operating Temperature
KF351	8 DIP	0 ~ + 70°C
KF351D	8 SOP	

**SCHEMATIC DIAGRAM**

## ABSOLUTE MAXIMUM RATINGS

Characteristics	Symbol	Value	Unit
Supply Voltage	$V_{CC}$	$\pm 18$	V
Differential Input Voltage	$V_{(DIFF)}$	$\pm 30$	V
Input Voltage Range	$V_I$	$\pm 15$	V
Output Short Circuit Duration		Continuous	
Power Dissipation	$P_D$	500	mW
Operating Temperature	$T_{OPR}$	0 ~ +70	°C
Storage Temperature Range	$T_{STG}$	-65 ~ +150	°C

## ELECTRICAL CHARACTERISTICS

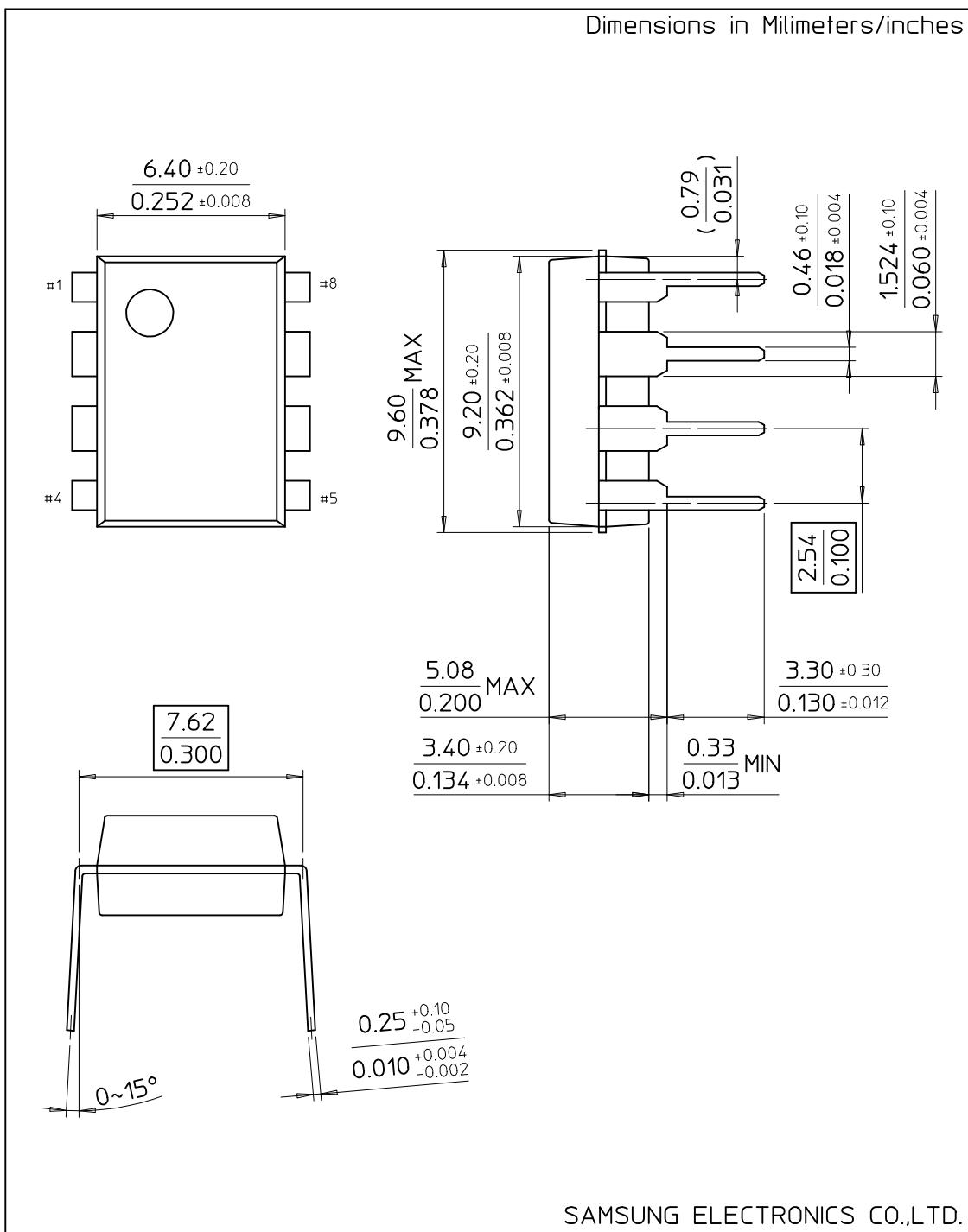
(V<sub>CC</sub> = + 15V, V<sub>EE</sub> = - 15V, T<sub>A</sub> = 25°C. unless otherwise specified)

Characteristic	Symbol	Test Conditions	Min	Typ	Max	Unit
Input Offset Voltage	$V_{IO}$	$R_S = 10K\Omega$	5.0	10	13	mV
Input Offset Voltage Drift	$\Delta V_{IO}/\Delta T$	$R_S = 10K\Omega$	0°C ≤ T <sub>A</sub> ≤ 70°C	10		µ V/°C
Input Offset Current	$I_{IO}$		0°C ≤ T <sub>A</sub> ≤ 70°C	25	100	pA
Input Bias Current	$I_{BAIS}$		0°C ≤ T <sub>A</sub> ≤ +70°C	50	200	pA
Input Resistance	$R_I$			10 <sup>12</sup>		Ω
Large Signal Voltage Gain	$G_V$	$V_{O(P-P)} = \pm 10V$ $R_L = 2K\Omega$	25	100		V/mV
			0°C ≤ T <sub>A</sub> ≤ +70°C	15		
Output Voltage Swing	$V_{O(P-P)}$	$R_L = 10K\Omega$	± 12	± 13.5		V
Input Voltage Range	$V_{I(R)}$		± 11	+15 -12		V
Common Mode Rejection Ratio	<b>CMRR</b>	$R_S \leq 10K\Omega$	70	100		dB
Power Supply Rejection Ratio	<b>PSRR</b>	$R_S \leq 10K\Omega$	70	100		dB
Power Supply Current	$I_{CC}$			2.3	3.4	mA
Slew Rate	<b>SR</b>	$G_V = 1$		13		V/µ s
Gain-Bandwidth Product	<b>GBW</b>			4		MHz



## 8-DIP-300

Dimensions in Millimeters/inches



SAMSUNG ELECTRONICS CO.,LTD.

## 8-SOP-225

