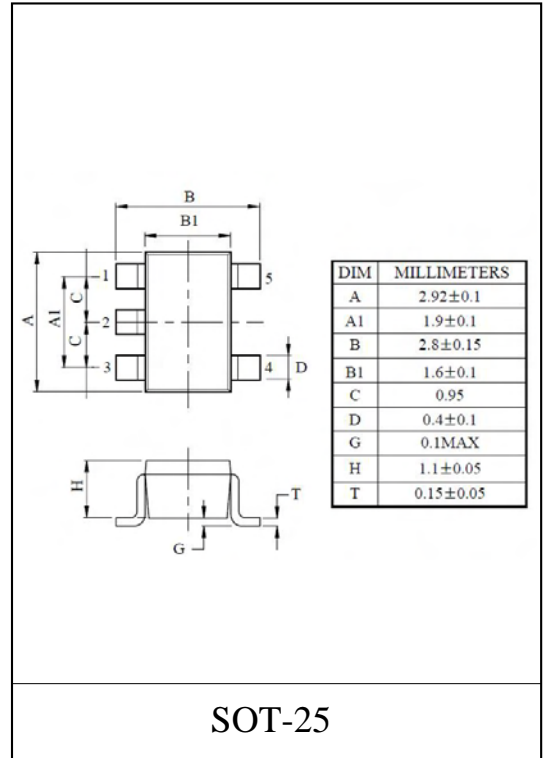
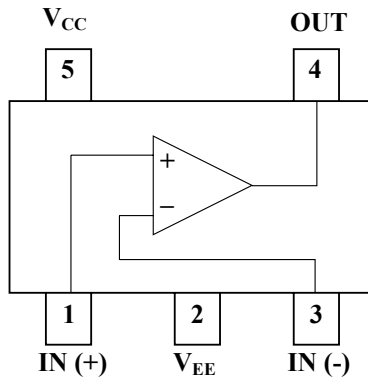


**Single Operational Amplifier**

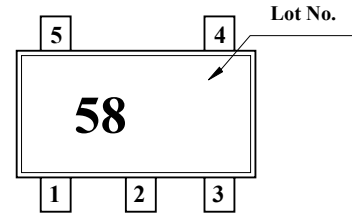
- Differential Input Voltage Range Equal to the Power Supply Voltage
- Wide Power Supply Voltage Range and Signal Power Supply : Single Supply 3V to 36V  
Dual Supply ±1.5V to ±18V
- Large Output Voltage Swing : 0V to  $V_{CC}-1.5V$
- Low Input Biasing Current :  $I_I = 45nA$  (Typ.)



**Pin Connection (Top View)**



**Marking (Top View)**



**Maximum Rating (Ta=25°C)**

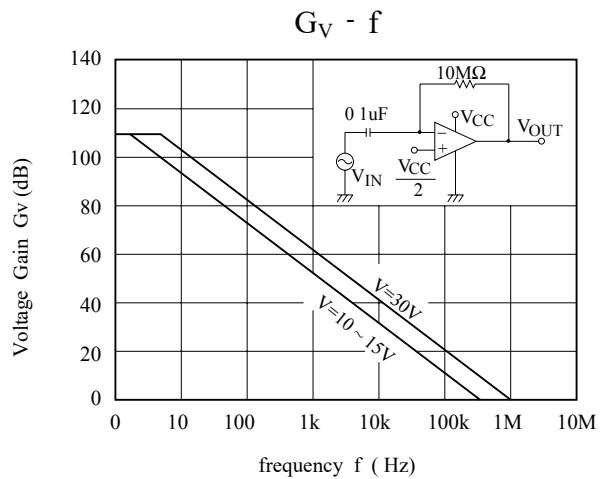
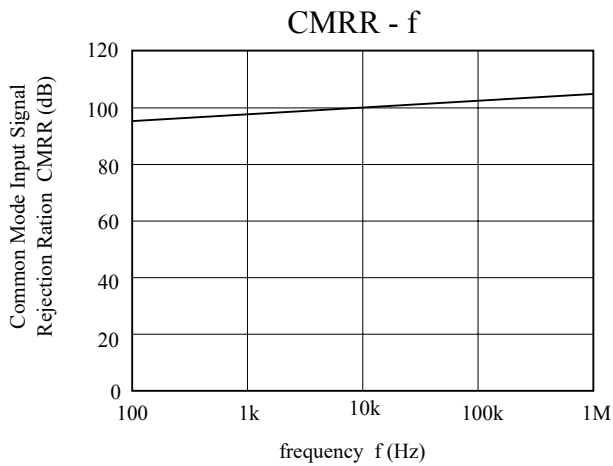
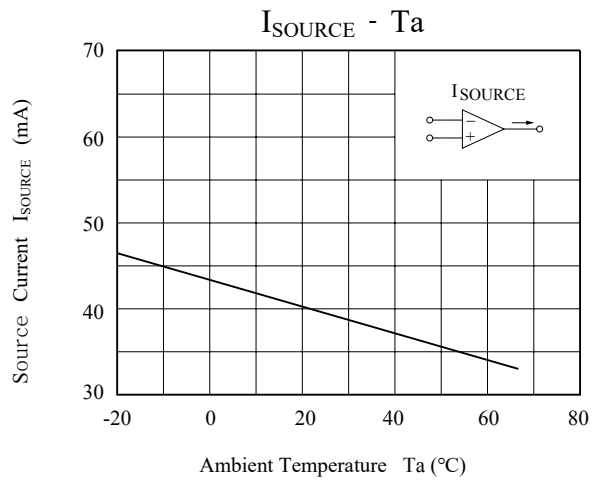
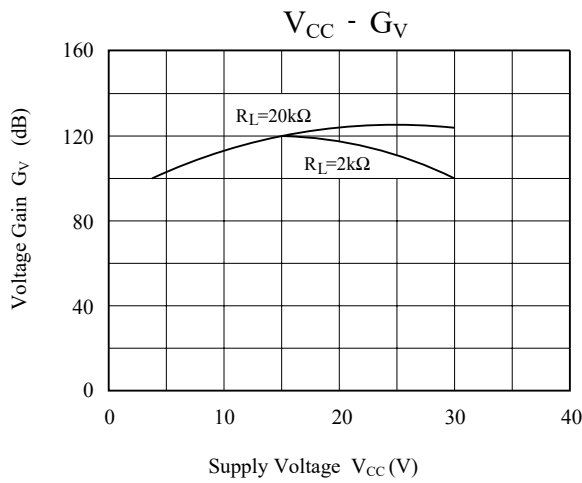
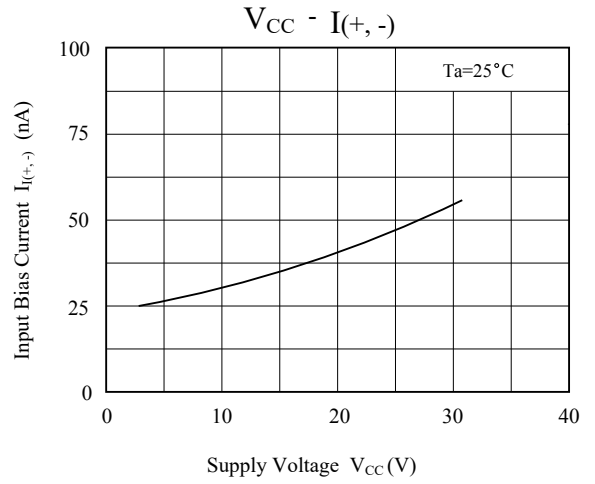
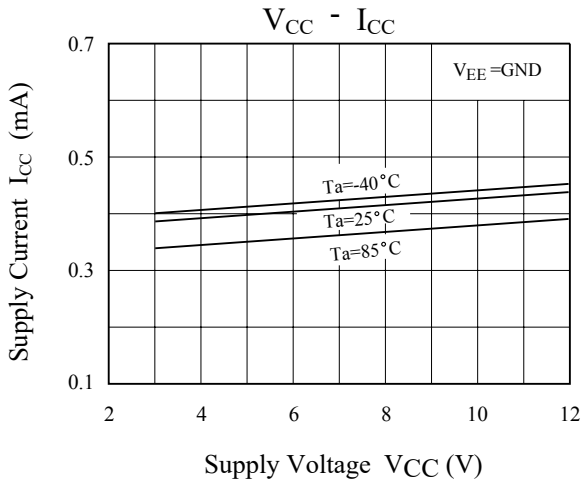
Characteristics	Symbol	Rating	Unit
Supply Voltage	$V_{CC}$	36, +18	V
	$V_{EE}$	0, -18	
Differential Input Voltage	$DV_{IN}$	±3.6	V
Input Voltage	$V_{IN}$	-0.3 ~ 3.6	V
Power Dissipation	$P_D$	200	mW
Operating Temperature	$T_{opr}$	-40 ~ 85	°C
Storage Temperature	$T_{stg}$	-55 ~ 125	°C

# FA358SOT

**Electrical Characteristic :  $V_{CC}=5V$ ,  $V_{EE}=GND$ ,  $T_a=25^\circ C$**

Characteristics	Symbol	Test Condition	Min.	Typ.	Max..	Unit
Input Offset Voltage	$V_{IO}$	$R_L \leq 10k\Omega$	-	2	7	mV
Input Offset Current	$I_{IO}$		-	5	30	nA
Input Bias Current	$I_I$		-	45	150	nA
Common Mode Input Voltage	$CMV_{IN}$	$V_{CC}=30V$ , $V_{EE}=GND$	0	-	$V_{CC}-1.5$	V
Supply Current	$I_{CC}$ , $I_{EE}$	$R_L = \infty$ , All OP Amps	-	0.4	0.8	mA
Voltage Gain	$G_V$	$R_L \geq 2k\Omega$	86	100	-	dB
Maximum Output Voltage Swing	$V_{OP-P}$	$R_L = 2k\Omega$	0	$V_{CC}-1.5$	-	V
Common Mode Input Signal Rejection Ratio	CMRR		60	85	-	dB
Supply Voltage Rejection Ratio	SVRR	$R_g = 10k\Omega$	60	100	-	dB
Source Current	$I_{SOURCE}$	$-IN=0V$ , $+IN=1V$	20	40	-	mA
Sink Current	$I_{SINK}$	$-IN=1V$ , $+IN=0V$	10	20	-	mA

# FA358SOT



# FA358SOT

