

TOSHIBA BIPOLAR LINEAR INTEGRATED CIRCUIT SILICON MONOLITHIC

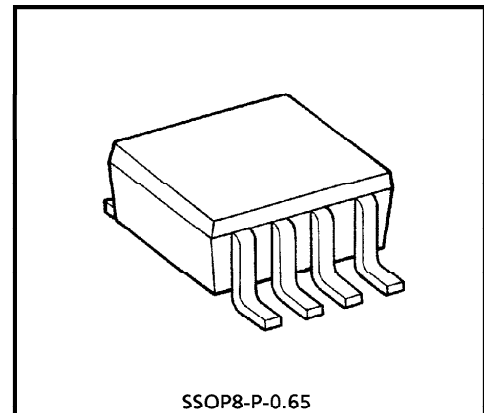
TA75W558FU

DUAL OPERATIONAL AMPLIFIER

TA75W558FU is a low-noise monolithic precision operational amplifier.

FEATURES

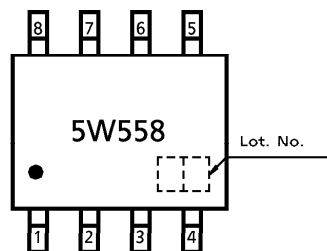
- Internal Frequency Compensation Type.
- Pin Compatible with TA75W01FU.
- Wide Band Range : $f_T = 3\text{MHz}$ (Typ.)
- Noise Voltage Range : $V_{NI} = 2.5\mu\text{V}_{\text{rms}}$ (Typ.)
- Power Supply Range : $\pm 4\text{V}_{\text{DC}}$ to $\pm 18\text{V}_{\text{DC}}$
- Suitable Application for Active Filter Equalizer Amplifier and Headphone Amplifier.



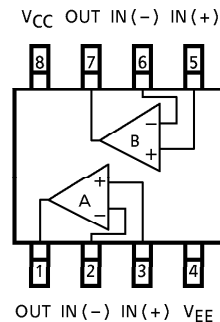
SSOP8-P-0.65

Weight : 0.021g (Typ.)

MARKING (TOP VIEW)



PIN CONNECTION (TOP VIEW)



961001EBA2

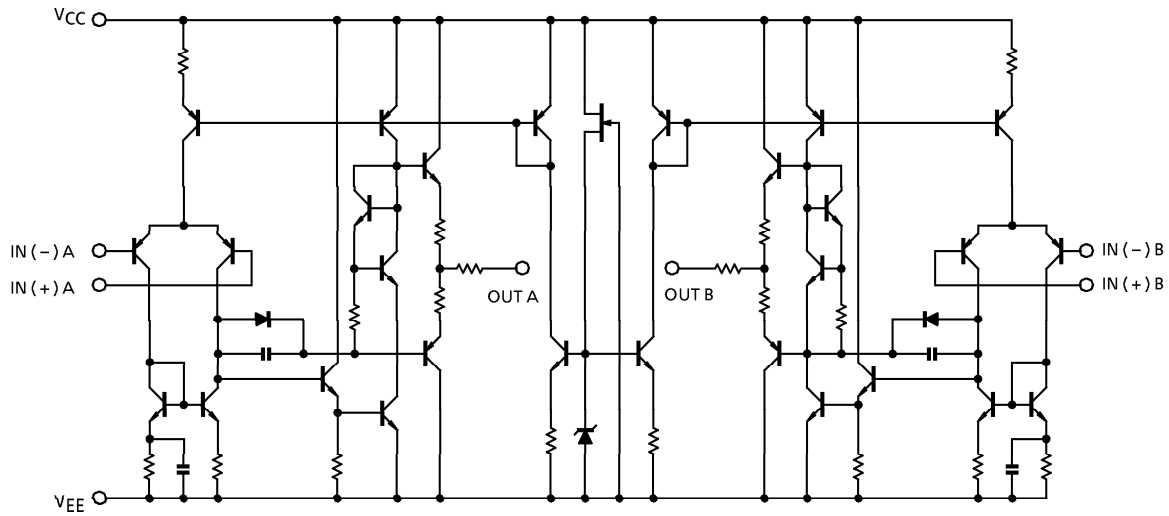
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EQUIVALENT CIRCUIT

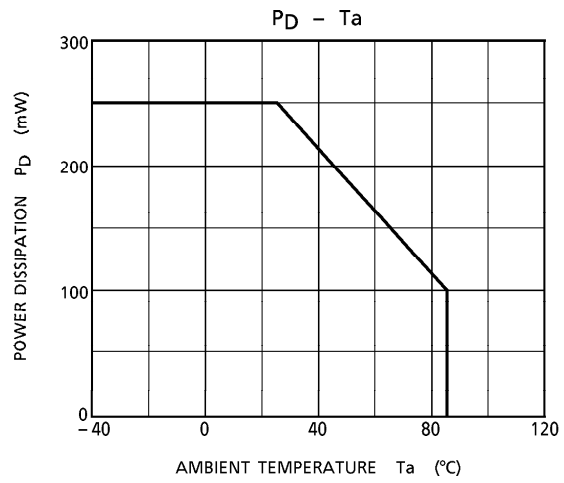
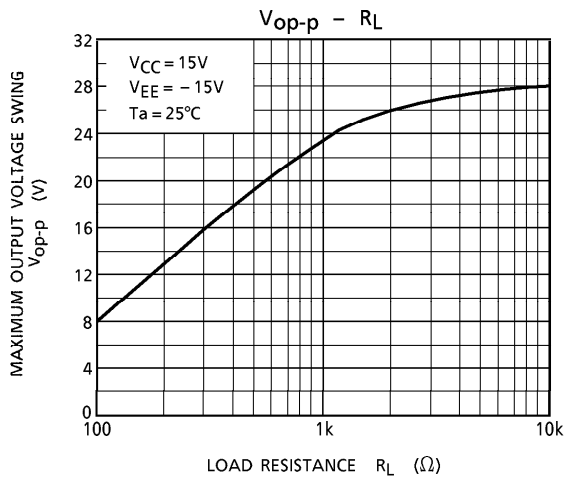
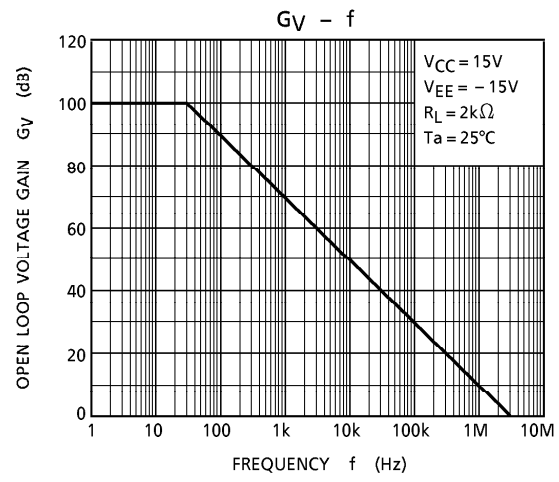
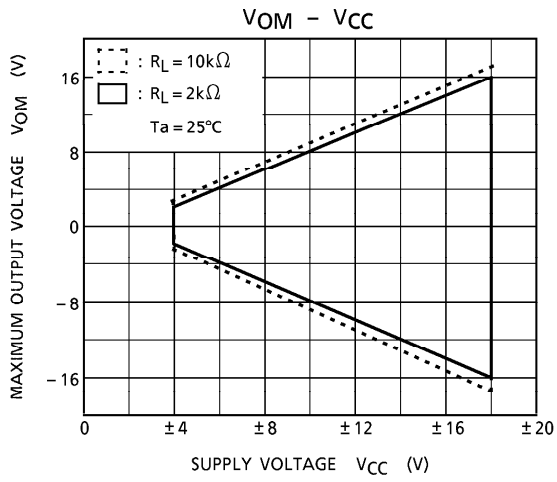


MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Supply Voltage	V _{CC} , V _{EE}	± 18	V
Differential Input Voltage	DV _{IN}	± 30	V
Input Voltage	V _{IN}	V _{EE} ~V _{CC}	V
Power Dissipation	P _D	250	mW
Operating Temperature	T _{opr}	- 40~85	°C
Storage Temperature	T _{stg}	- 55~125	°C

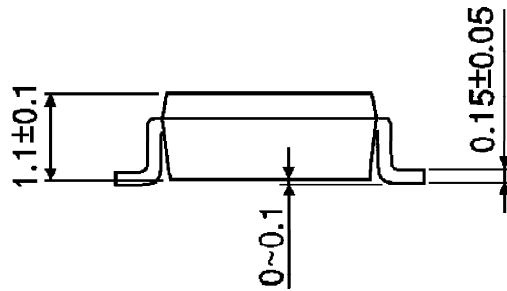
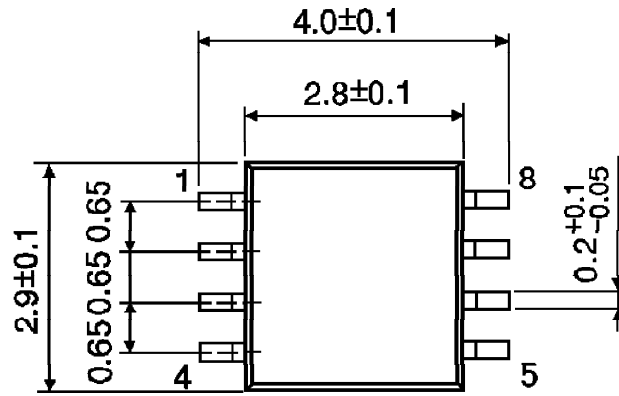
ELECTRICAL CHARACTERISTICS ($V_{CC} = 15V$, $V_{EE} = -15V$, $T_a = 25^\circ C$)

CHARACTERISTICS	SYMBOL	TEST CIR-CUIT	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Input Offset Voltage	V_{IO}	—	$R_g \leq 10k\Omega$	—	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}	—	$R_L = 10k\Omega$	± 12	± 14	—	V
	V_{OMR}	—	$R_L = 2k\Omega$	± 10	± 13	—	
Source Current	I_{source}	—	—	—	40	—	mA
Sink Current	I_{sink}	—	—	—	40	—	mA
Voltage Gain (Open Loop)	G_V	—	$V_{OUT} = \pm 10V$, $R_L = 2k\Omega$	86	100	—	dB
Common Mode Input Signal Rejection Ratio	CMRR	—	$R_g \leq 10k\Omega$	70	90	—	dB
Supply Voltage Rejection Ratio	SVRR	—	$R_g \leq 10k\Omega$	—	30	150	$\mu V/V$
Slew Rate	SR	—	$G_V = 1$, $R_L = 2k\Omega$	—	1.0	—	$V/\mu s$
Unity Gain Cross Frequency	f_T	—	—	—	3.0	—	MHz
Supply Current	I_{CC}	—	—	—	4.0	6.0	mA
Equivalent Input Noise Voltage	V_{NI}	—	$R_S = 1k\Omega$, $f = 30Hz \sim 30kHz$	—	2.5	—	μV_{rms}



OUTLINE DRAWING
SSOP8-P-0.65

Unit : mm



Weight : 0.021g (Typ.)

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