TOSHIBA BIPOLAR LINEAR INTEGRATED CIRCUIT SILICON MONOLITHIC

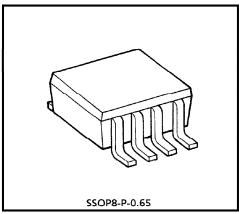
TA75W558FU

DUAL OPERATIONAL AMPLIFIER

TA75W558FU is a low-noise monolithic precision operational amplifier.

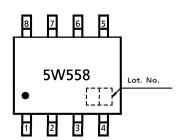
FEATURES

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

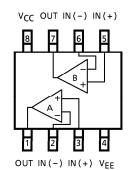


Weight: 0.021g (Typ.)

MARKING (TOP VIEW)



PIN CONNECTION (TOP VIEW)



961001EBA2

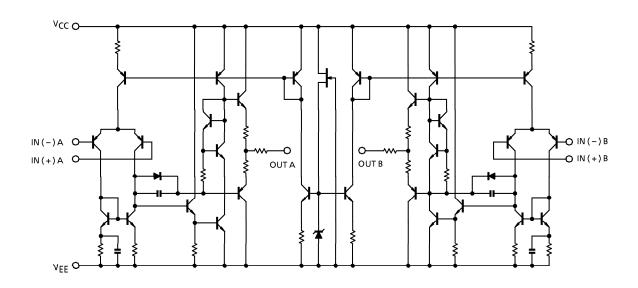
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EQUIVALENT CIRCUIT

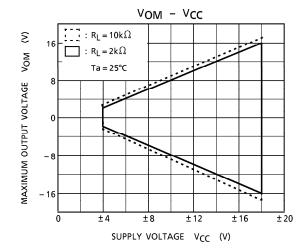


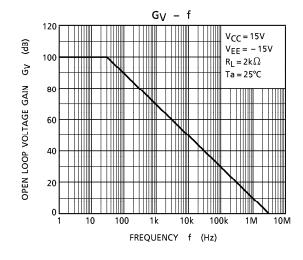
MAXIMUM RATINGS (Ta = 25°C)

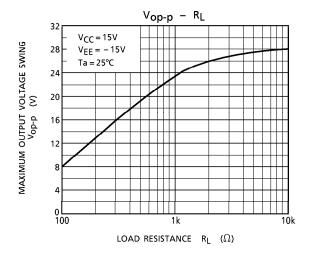
CHARACTERISTIC	SYMBOL	RATING	UNIT
Supply Voltage	VCC, VEE	± 18	V
Differential Input Voltage	DVIN	± 30	V
Input Voltage	VIN	$V_{EE} \sim V_{CC}$	V
Power Dissipation	PD	250	mW
Operating Temperature	T _{opr}	- 40∼8 5	°C
Storage Temperature	T _{stg}	- 55∼125	°C

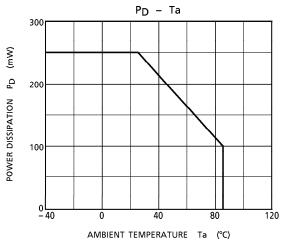
ELECTRICAL CHARACTERISTICS ($V_{CC} = 15V$, $V_{EE} = -15V$, Ta = 25°C)

CHARACTERISTICS	SYMBOL	TEST CIR- CUIT	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Input Offset Voltage	V _{IO}	_	Rg≦10kΩ	_	0.5	6	mV
Input Offset Current	lio	_	_	_	5	200	nA
Input Bias Current	Ц	_	_	_	60	500	nA
Common Mode Input Voltage	CMVIN	_	_	± 12	± 14	_	V
Maximum Output Voltage	VOM	_	$R_L = 10k\Omega$	± 12	± 14	_	V
	VOMR	_	$R_L = 2k\Omega$	± 10	± 13	_	
Source Current	I _{source}	_	_	_	40	_	mA
Sink Current	l _{sink}	_	_	_	40	_	mA
Voltage Gain (Open Loop)	G∨	_	$V_{OUT} = \pm 10V$, $R_L = 2k\Omega$	86	100	_	dB
Common Mode Input Signal Rejection Ratio	CMRR	_	Rg≤10kΩ	70	90	_	dB
Supply Voltage Rejection Ratio	SVRR	_	$Rg \! \leq \! 10k\Omega$	_	30	150	μ V /V
Slew Rate	SR	_	$G_V = 1$, $R_L = 2k\Omega$	_	1.0	_	V / μ s
Unity Gain Cross Frequency	f _T	_	_	_	3.0	_	MHz
Supply Current	ICC	_			4.0	6.0	mA
Equivalent Input Noise Voltage	V _{NI}	_	$R_S = 1k\Omega$, $f = 30Hz \sim 30kHz$	_	2.5	_	μ V $_{rms}$



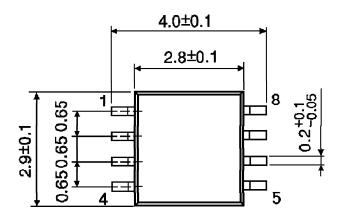


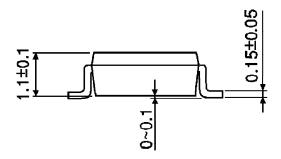




OUTLINE DRAWING SSOP8-P-0.65

Unit: mm





Weight: 0.021g (Typ.)

Mouser Electronics

Authorized Distributor

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Toshiba:

TA75W558FU,LF