



INTEGRATED CIRCUIT

TECHNICAL DATA

TA7063P

TOSHIBA BIPOLAR LINEAR INTEGRATED CIRCUIT
SILICON MONOLITHIC

GENERAL PURPOSE PRE-AMPLIFIER

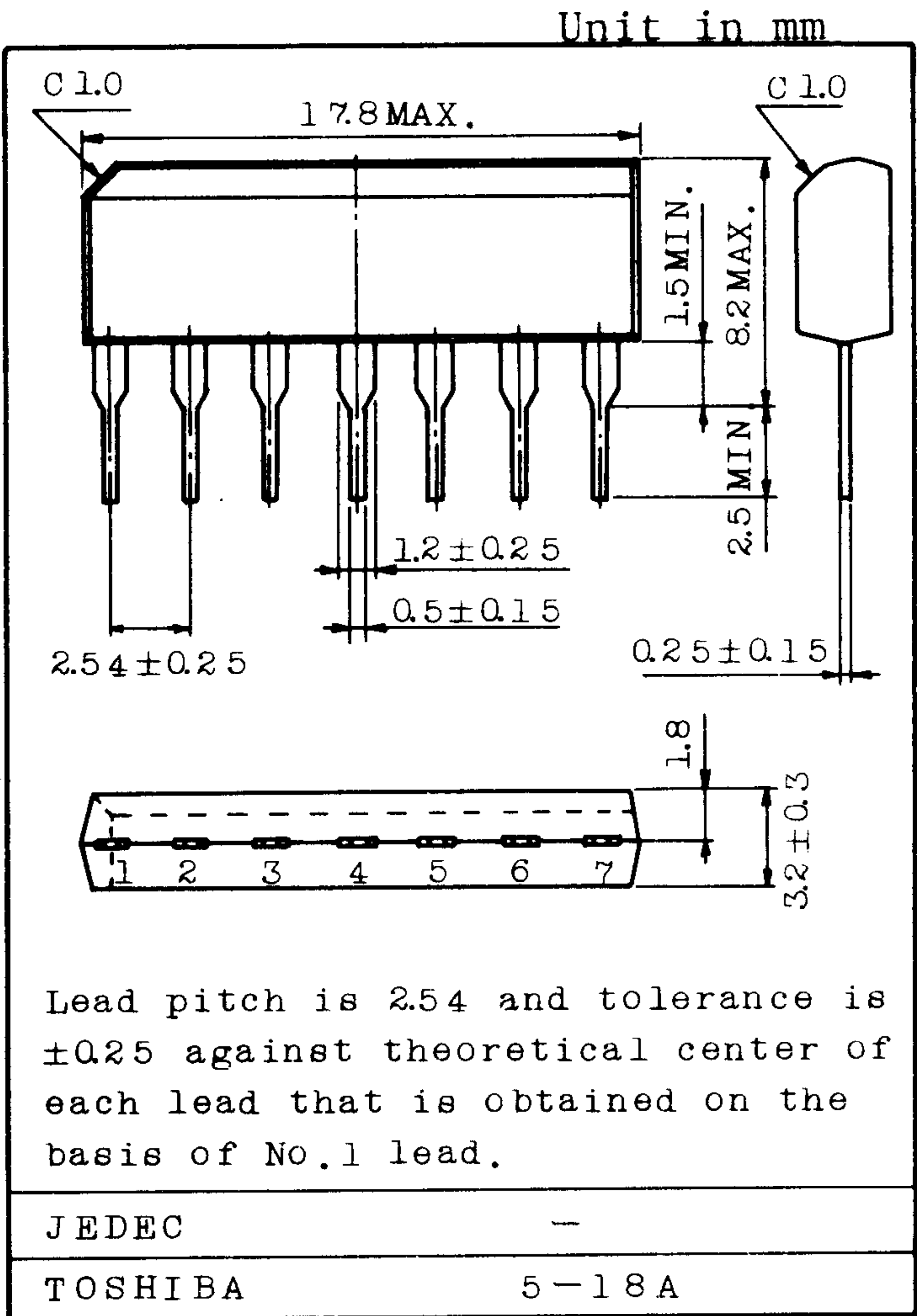
VOLTAGE AMPLIFIER

- Low Noise
- Wide Operating Supply Voltage Range . $V_{CC}=3\sim 12V$

MAXIMUM RATINGS ($T_a=25^{\circ}C$)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Supply Voltage	V_{CC}	15	V
Power Dissipation (Note)	P_D	200	mW
Operating Temperature	T_{opr}	$-30\sim 75$	$^{\circ}C$
Storage Temperature	T_{stg}	$-55\sim 125$	$^{\circ}C$

Note : Derated above $T_a=25^{\circ}C$ in the proportion of $2mW/^{\circ}C$



ELECTRICAL CHARACTERISTICS ($V_{CC}=8V$, $R_L=22k\Omega$, $T_a=25^{\circ}C$)

CHARACTERISTIC	SYMBOL	TEST CIRCUIT	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Supply Current	I_{CC}	1	$V_{IN}=0$	1.6	2.0	2.6	mA
Voltage Gain (Open Loop)	G_{VO}	1	$f=1kHz$, $V_{IN}=-80dBm$	62	-	-	dB
Voltage Gain (Closed Loop) (Note)	G_V	2	$f=1kHz$, $R_{NF}=22k\Omega$, $V_{IN}=-45dBm$	40.5	-	46.5	dB
Maximum Output Voltage	V_{OM}	2	$f=1kHz$, $THD=1\%$	1.0	-	-	V_{rms}
Equivalent Input Noise Voltage	V_{NI}	3	NAB equalizer $R_g=2.2k\Omega$, $f=1kHz$	-	2.0	-	μV_{rms}

Note: In regard to the value of voltage gain (closed loop voltage), it is possible to be classified.

EQUIVALENT CIRCUIT

