

TA7640AP
TA7640AF

FM/AM IF SYSTEM

The TA7640AP and TA7640AF are FM/AM IF system IC designed for portable use. As compared with conventional IC, this IC is greatly improved in external parts counts and electrical characteristics, especially tweet and overload distortion.

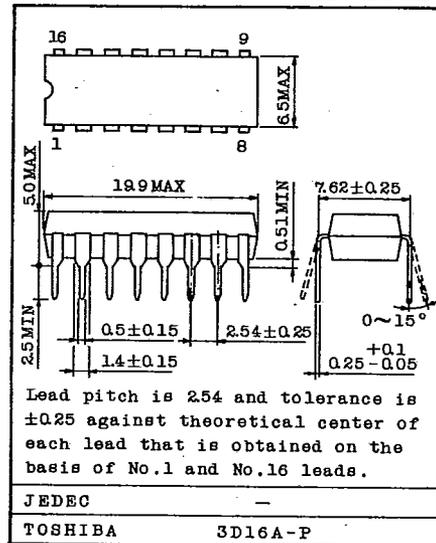
- Low Supply Current, AM:7mA, FM:10mA (Typ.)
- Few External Parts Counts
- Excellent Tweet
- Low Overload Distortion
- Tuning Indicator LED Driving Capability
: $I_{LAMP}=10mA$ (Max.)
- FM/AM Mode Switch Built-in
- Common Output for AM/FM
- Operating Supply Voltage Range : $V_{CC(opr)}=3 \sim 8V$

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

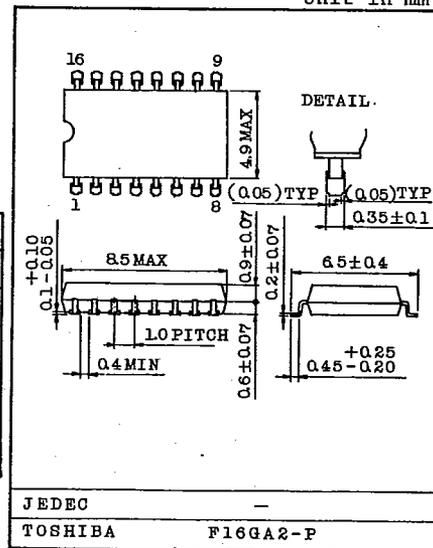
CHARACTERISTIC		SYMBOL	RATING	UNIT
Supply Voltage		V_{CC}	8	V
Lamp Current		I_{LAMP}	10	mA
Power Dissipation (Note)	TA7640AP	P_D	750	mW
	TA7640AF		350	
Operating Temperature		T_{opr}	-25 ~ 75	$^\circ C$
Storage Temperature		T_{stg}	-55 ~ 150	$^\circ C$

Note : Derated above $T_a=25^\circ C$ in the proportion of 6mW/ $^\circ C$ for TA7640AP and 2.8mW/ $^\circ C$ for TA7640AF.

Unit in mm



Unit in mm

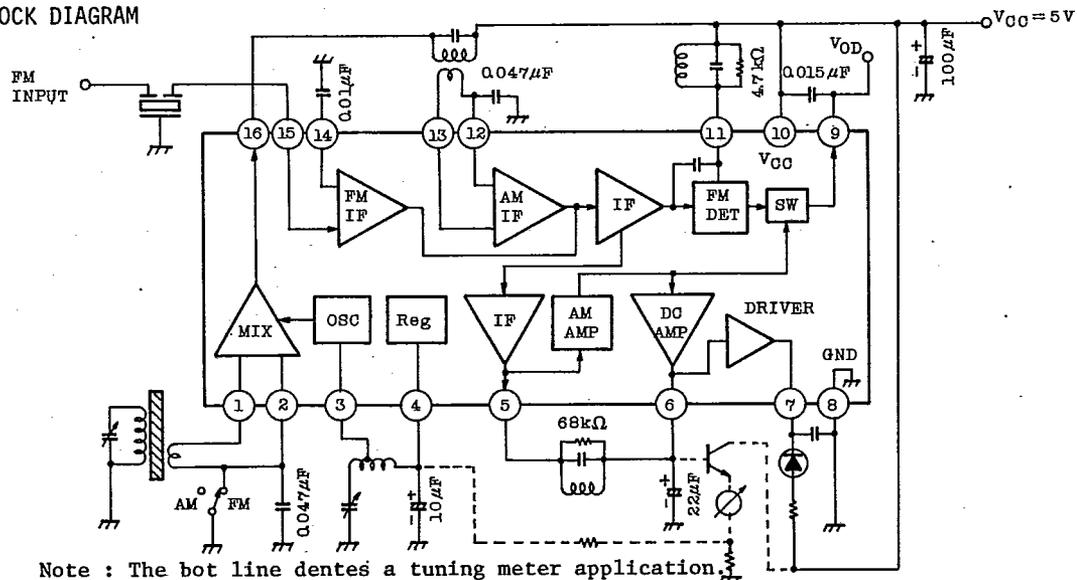


TA7640AP

TA7640AF

T-77-05-07

BLOCK DIAGRAM



Note : The bot line dentes a tuning meter application.

ELECTRICAL CHARACTERISTICS

1. DC CHARACTERISTICS (V_{CC}=5V, Terminal voltage at no signal)

ITEM	SYMBOL	TYP.		UNIT
		AM	FM	
Terminal 1 Voltage (AM MIX IN)	V ₁	1.5	0	V
" 2 " (AM MIX BYPASS)	V ₂	1.5	0	V
" 3 " (AM OSC)	V ₃	2.3	2.3	V
" 4 " (Reg)	V ₄	2.3	2.3	V
" 5 " (AM IF OUT)	V ₅	1.0	0.9	V
" 6 " (Meter OUT)	V ₆	1.0	0.9	V
" 7 " (LED)	V ₇	-	-	V
" 8 " (GND)	V ₈	0	0	V
" 9 " (DET OUT)	V ₉	1.4	1.5	V
" 10 " (VCC)	V ₁₀	5.0	5.0	V
" 11 " (FM DET)	V ₁₁	5.0	5.0	V
" 12 " (AM IF BYPASS)	V ₁₂	1.5	1.5	V
" 13 " (AM IF IN)	V ₁₃	1.5	1.5	V
" 14 " (FM IF BYPASS)	V ₁₄	1.5	1.5	V
" 15 " (FM IF IN)	V ₁₅	1.5	1.5	V
" 16 " (AM MIX OUT)	V ₁₆	5.0	5.0	V

AUDIO LINEAR IC