



**LINEAR
INTEGRATED
CIRCUITS
-RADIO-TV-**

**βTDA 1083
AM - FM RADIO SYSTEM**

The βTDA 1083 integrated circuit, performing all radio functions except for the VHF tuning, is well-suited for low-cost applications requiring a minimum parts count and high performance standards.

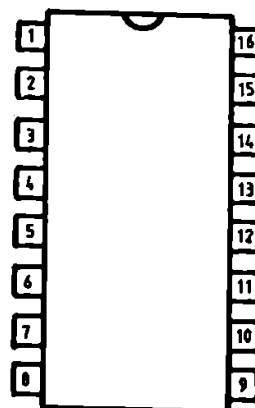
In the AM mode of operation, the device is a complete, single conversion, superheterodyne broadcast or shortwave receiver including AGC and envelope peak detection.

In the FM mode of operation, the βTDA 1083 operates as a high-gain IF amplifier / limiter and phase shift detector. Switching between modes is accomplished with a simple DC switch.

Features

- Operating temperature	-25 ...	+70 °C
- Storage temperature	-25 ...	+125 °C
- Supply voltage	2 ...	12 V
- Input limiting threshold	max.	40 μV
- Sensitivity	typ.	10 μV
- output distortion	max.	2 %p
- AM rejection	min.	40 dB

- | 1. IF decoupling
- | 2. IF input
- | 3. GND
- | 4. Mixer output
- | 5. Oscillator circuit
- | 6. Input
- | 7. AM-decoupling
- | 8. Demodulator output
- | 9. Audio input
- | 10. Audio feedback
- | 11. Audio GND
- | 12. Audio output
- | 13. Vcc
- | 14. Demodulator circuit
- | 15. Demodulator circuit
- | 16. AGC / AFC voltage



PACKAGE MP-117 / TOP VIEW

⌘ Preliminary data