

## TDA1010A/TDA1020

### Pre-amplifier plus 3.4 to 12 W power amplifier

- Separate pre-amplifier and power amplifier allows standby switching
- Low-cost of external components
- Good ripple rejection
- Thermal protection
- Output protected against AC short-circuit to ground
- Load dump protection allows the circuit to tolerate supply voltages as high as 45 V without damage
- High frequency limiting beyond the audible range in the pre-amplifier and power amplifier suppresses supply interference and ignition noise
- Standby switching feature with low current consumption (<1 mA)

Although these mono amplifiers are primarily for use in car radios, their wide supply voltage range (6 V to 24 V) also makes them attractive for mains-powered radios and tape recorders requiring output powers up to 12 W.

They come in a 9-pin plastic SIL medium-power packages for easy mounting.

#### POWER OUTPUT AT $d_{tot} = 10\%$

| power output (W)   | supply voltage (V) | load impedance ( $\Omega$ ) |
|--|--------------------|-----------------------------|
| without bootstrap  |                    |                             |
| 5.5  | 14.4               | 4                           |
| with bootstrap capacitor (TDA1010A/1020)   |                    |                             |
| 3.4  | 14.4               | 8                           |
| 6.2  | 14.4               | 4                           |
| 6.4/12   | 14.4               | 2                           |
| with additional 220 $\Omega$ bootstrap resistor between pins 3 and 4 (TDA1010A only) |                    |                             |
| 9  | 14.4               | 2                           |
| 10   | 18                 | 2                           |

