



Dual Operational Amplifier and Voltage Reference

OPERATIONAL AMPLIFIER

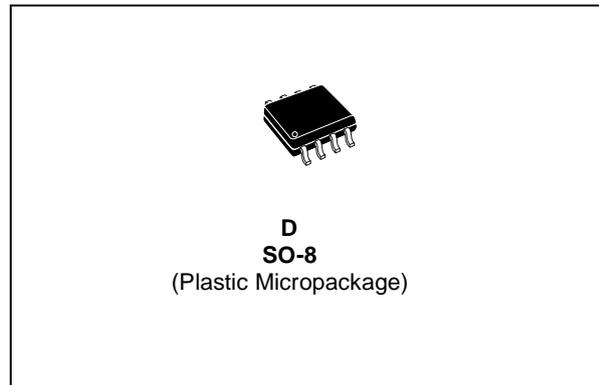
- **LOW INPUT OFFSET VOLTAGE** : 0.5mV typ.
- **LOW SUPPLY CURRENT** : 350 μ A/op. (@ $V_{CC} = 5V$)
- **MEDIUM BANDWIDTH** (unity gain) : 0.9MHz
- **LARGE OUTPUT VOLTAGE SWING** : 0V to ($V_{CC} - 1.5V$)
- **INPUT COMMON MODE VOLTAGE RANGE INCLUDES GROUND**
- **WIDE POWER SUPPLY RANGE** : 3 to 32V ± 1.5 TO $\pm 16V$
- **1.5kV ESD PROTECTION**
- **VOLTAGE REFERENCE**
- **FIXED OUTPUT VOLTAGE REFERENCE 2.5V**
- **$\pm 0.4\%$ OR $\pm 0.7\%$ VOLTAGE PRECISION**
- **SINK CURRENT CAPABILITY** : 1 to 100mA
- **TYPICAL OUTPUT IMPEDANCE** : 0.2 Ω

DESCRIPTION

The TSM103W is a monolithic IC that includes one independent op-amp and another op-amp for which the non-inverting input is wired to a 2.5V fixed Voltage Reference. This device offers both space and cost savings in many applications such as power supply management or data acquisition systems.

ORDER CODE

Part Number	Temperature Range	Package	Packaging
TSM103WID	-40, +105 $^{\circ}$ C	SO-8	Tube
TSM103WIDT			Tape & Reel
TSM103WAID			Tube
TSM103WAIDT			Tape & Reel



PIN CONNECTIONS (top view)

