

TSX series

16 V CMOS amplifiers and comparators



Advanced 18 V process technology for new generation of analog designs

The TSX series offers a new generation of ICs using an in-house advanced manufacturing process that helps save energy, improve accuracy and simplify the analog system design for applications from automotive electronics to smart buildings and industrial controls.

KEY FEATURES

- Rail-to-rail I/O
- Low input bias current
- Low input offset voltage
- Low power
- ESD (HBM) up to 4 kV
- Automotive-qualified
- Also available in DFN package (2 x 2 mm)

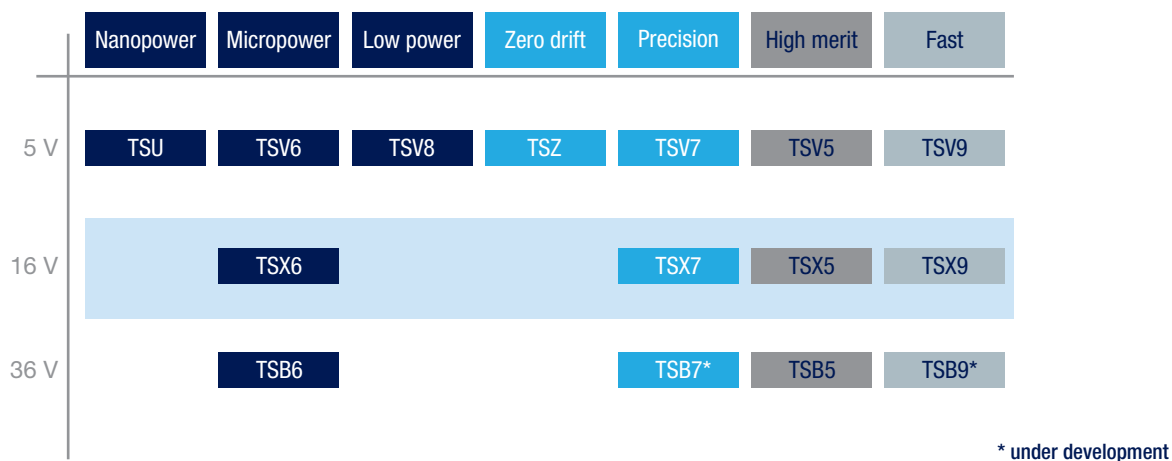
KEY FUNCTIONS

- Photodiode amplification
- Transimpedance amplifier
- Sensor analog front ends
- Active filtering
- Low-side current sensing
- ADC drivers
- I/V converters for DAC
- Process control

TARGETED APPLICATIONS

- Industrial equipment
- Building automation system
- Automotive signal conditioning
- Medical instrumentation
- LED lighting

TSX DEVICES INSIDE ST'S OP AMPS PORTFOLIO



OPERATIONAL AMPLIFIERS

TSX Series	Description	Absolute maximum rating (V)	Operating voltage (V)	Supply current per channel	Input offset voltage	GBW
				Max. (µA)	Max. (mV)	Typ. (kHz)
TSX631A	Micropower	18	3.3 to 16	60	0.5	200
TSX561A	Micropower	18	3 to 16	360	0.6	900
TSX711	Precision	18	2.7 to 16	850	0.2	2.7
TSX7191	Precision	18	2.7 to 16	900	0.2	9
TSX921	High bandwidth	18	4 to 16	3400	4	10
TSX9291	High bandwidth	18	4 to 16	3400	4	16

Note: dual and quad version also available.
 Package available: SOT23-5, DFN 2X2, miniSO8, SO8, QFN16 and TSSOP14.
 Automotive grade available.

COMPARATORS

Micropower comparators	Description	Package	Absolute maximum rating	Operating voltage	Supply current per channel	Response time
			(V)	(V)	Typ. (µA)	Typ. (µs)
TSX3702	Micropower	DFN8 (2 x 2 mm), MiniSO8, SO-8, TSSOP-8	18	2.7 to 16	5	2.5
TSX393	Micropower	DFN8 (2 x 2 mm), MiniSO8, SO-8, TSSOP-8	18	2.7 to 16	5	0.9

Note: quad version also available



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