



January 2012

Touchstone Semiconductor Product Portfolio

Operational Amplifier Products

Part Number	V _{DD} (min)	V _{DD} (max)	I _{DD} (max)	V _{OS} (max)	GBW (kHz)	A _{VO} L (dB)	Slew Rate (V/ms)	Rail-to-Rail In/Out	Package	Description
TS1001	0.65V	2.5V	1µA	2.5mV	4	90	1.5	Yes/Yes	SC70-5	The Only 0.8V/0.6µA Operational Amplifier

Analog Comparator + Voltage Reference Products

Part Number	V _{CC} (min)	V _{CC} (max)	I _{CC} (max)	Internal Reference	Output Stage	V _{OS} (max)	t _{PD+} /t _{PD-} (typ)	Package	Description
TSM9117	1.6V	5.5V	1 µA	+1.252V ±1.75%	Push-Pull	5 mV	15/16 µs	SC70-5 SOIC8	MAX9117 Alternate Source
TSM9118	1.6V	5.5V	1 µA	+1.252V ±1.75%	Open-Drain	5 mV	16/16 µs	SC70-5	MAX9118 Alternate Source
TSM9119	1.6V	5.5V	1 µA	No	Push-Pull	5 mV	15/16 µs	SC70-5	MAX9119 Alternate Source
TSM9120	1.6V	5.5V	1 µA	No	Open-Drain	5 mV	16/16 µs	SC70-5 SOIC8	MAX9120 Alternate Source
TSM917	1.8V	5.5V	1.3 µA	+1.245V ±1.5%	Push-Pull	5 mV	30/17 µs	SOT23-5 SOIC8	MAX917 Alternate Source
TS9001-1	1.6V	5.5V	1 µA	+1.252V ±1%	Push-Pull	5 mV	25/12 µs	SC70-5	1.6V Nanopower Comparator + VREF
TS9001-2	1.6V	5.5V	1 µA	+1.252V ±1%	Open-Drain	5 mV	21/12 µs	SC70-5	1.6V Nanopower Comparator + VREF



Precision Voltage Reference Products

Part Number	V _{OUT} (V)	Initial Accuracy (%)	V _{OUT} Drift (ppm/°C)	V _{IN} (V, min)	V _{IN} (V, max)	I _{CC} (μA)	I _{OUT} (μA)	0.1Hz to 10Hz Noise (μV _{PP})	Package	Description
TS6001A-2.5	2.5	0.08	7	2.7	12.6	35	500	50	SOT23-3	High-accuracy, Very Low Drift Proprietary Voltage Reference
TS6001B-2.5		0.16	10							
TSM6025A	2.5	0.2	15	2.7	12.6	35	500	50	SOT23-3	MAX6025 Alternate Source
TSM6025B		0.4	25							

Current-Sense Amplifier Products

Part Number	Gain Option	V _{CM} (min)	V _{CM} (max)	I _{CC} (max)	V _{OS} (max)	Gain Error	Package	Description
TSM9938T	25V/V	1.6V	28V	1 μA	500μV	0.5%	SOT23-5	MAX9938T Alternate Source
TSM9938F	50V/V	1.6V	28V	1 μA	500μV	0.5%	SOT23-5 TDFN22-6	MAX9938F Alternate Source
TSM9938H	100V/V	1.6V	28V	1 μA	500μV	0.5%	SOT23-5	MAX9938H Alternate Source
TSM9938W	200V/V	1.6V	28V	1 μA	500μV	0.5%	SOT23-5	MAX9938W Alternate Source
TSM9634T	25V/V	1.6V	28V	1 μA	250μV	0.5%	SOT23-5	MAX9634T Alternate Source
TSM9634F	50V/V	1.6V	28V	1 μA	250μV	0.5%	SOT23-5	MAX9634F Alternate Source
TSM9634H	100V/V	1.6V	28V	1 μA	250μV	0.5%	SOT23-5	MAX9634H Alternate Source
TSM9634W	200V/V	1.6V	28V	1 μA	250μV	0.5%	SOT23-5	MAX9634W Alternate Source
TS1100-25	25V/V	2V	25V	1 μA	50μV	0.5%	SOT23-5	Ultra-low V _{OS} Proprietary Current-Sense Amplifier
TS1100-50	50V/V	2V	25V	1 μA	50μV	0.5%	SOT23-5	Ultra-low V _{OS} Proprietary Current-Sense Amplifier
TS1100-100	100V/V	2V	25V	1 μA	50μV	0.5%	SOT23-5	Ultra-low V _{OS} Proprietary Current-Sense Amplifier
TS1100-200	200V/V	2V	25V	1 μA	50μV	0.5%	SOT23-5	Ultra-low V _{OS} Proprietary Current-Sense Amplifier