ORDER INFORMATION

LEAD FREE FINISH	TAPE AND REEL	PART MARKING*	PACKAGE DESCRIPTION	TEMPERATURE RANGE
LTC7803EMSE#PBF	LTC7803EMSE#TRPBF	7803	16-Lead Plastic MSOP	–40°C to 125°C
LTC7803IMSE#PBF	LTC7803IMSE#TRPBF	7803	16-Lead Plastic MSOP	–40°C to 125°C
LTC7803JMSE#PBF	LTC7803JMSE#TRPBF	7803	16-Lead Plastic MSOP	–40°C to 150°C
LTC7803HMSE#PBF	LTC7803HMSE#TRPBF	7803	16-Lead Plastic MSOP	–40°C to 150°C
LTC7803EUD#PBF	LTC7803EUD#TRPBF	LHGT	16-Lead (3mm × 3mm) Plastic QFN	–40°C to 125°C
LTC7803IUD#PBF	LTC7803IUD#TRPBF	LHGT	16-Lead (3mm × 3mm) Plastic QFN	–40°C to 125°C
LTC7803JUD#PBF	LTC7803JUD#TRPBF	LHGT	16-Lead (3mm × 3mm) Plastic QFN	–40°C to 150°C
LTC7803HUD#PBF	LTC7803HUD#TRPBF	LHGT	16-Lead (3mm × 3mm) Plastic QFN	–40°C to 150°C
AUTOMOTIVE PRODUCTS**				
LTC7803EMSE#WPBF	LTC7803EMSE#WTRPBF	7803	16-Lead Plastic MSOP	–40°C to 125°C
LTC7803IMSE#WPBF	LTC7803IMSE#WTRPBF	7803	16-Lead Plastic MSOP	–40°C to 125°C
LTC7803JMSE#WPBF	LTC7803JMSE#WTRPBF	7803	16-Lead Plastic MSOP	–40°C to 150°C
LTC7803HMSE#WPBF	LTC7803HMSE#WTRPBF	7803	16-Lead Plastic MSOP	–40°C to 150°C
LTC7803EUD#WPBF	LTC7803EUD#WTRPBF	LHGT	16-Lead (3mm × 3mm) Plastic QFN	–40°C to 125°C
LTC7803IUD#WPBF	LTC7803IUD#WTRPBF	LHGT	16-Lead (3mm × 3mm) Plastic QFN	–40°C to 125°C
LTC7803JUD#WPBF	LTC7803JUD#WTRPBF	LHGT	16-Lead (3mm × 3mm) Plastic QFN	–40°C to 150°C
LTC7803HUD#WPBF	LTC7803HUD#WTRPBF	LHGT	16-Lead (3mm × 3mm) Plastic QFN	–40°C to 150°C

Contact the factory for parts specified with wider operating temperature ranges. *The temperature grade is identified by a label on the shipping container.

Tape and reel specifications. Some packages are available in 500 unit reels through designated sales channels with #TRMPBF suffix.

**Versions of this part are available with controlled manufacturing to support the quality and reliability requirements of automotive applications. These models are designated with a #W suffix. Only the automotive grade products shown are available for use in automotive applications. Contact your local Analog Devices account representative for specific product ordering information and to obtain the specific Automotive Reliability reports for these models.

ELECTRICAL CHARACTERISTICS

The ● denotes the specifications which apply over the specified operating junction temperature range, otherwise specifications are at T_A = 25°C, V_{IN} = 12V, RUN = 12V, $EXTV_{CC}$ = 0V, unless otherwise noted. (Note 2)

SYMBOL	PARAMETER	CONDITIONS		MIN	TYP	MAX	UNITS
Input Supply							
V_{IN}	Input Supply Operating Range			4.5		40	V
I_{VIN}	V_{IN} Current in Regulation	Front Page Circuit, 14V to 3.3V No Load			12		µA
Controller Operation							
V_{OUT}	Output Voltage Operating Range			0.8		40	V
V_{FB}	Regulated Feedback Voltage	(Note 4) V_{IN} = 4.5V to 40V, ITH Voltage = 0.6V to 1.2V 0°C to 85°C, All Grades	● ●	0.788 0.792	0.800 0.800	0.812 0.808	V V
	Feedback Current	(Note 4)			±5	±50	nA
	Feedback Overvoltage Protection Threshold	Measured at V_{FB} Relative to Regulated V_{FB}		7	10	13	%
g_m	Transconductance Amplifier g_m	(Note 4) ITH = 1.2V, Sink/Source = 5µA			2		mmho
$V_{SENSE(MAX)}$	Maximum Current Sense Threshold	V_{FB} = 0.7V, V_{SENSE^-} = 3.3V	●	45	50	55	mV