April, 2017 − Rev. 3

C1 = 1 μF (Low ESR)
C2 = 470 μ
C4 = 1000 μF + 10 μF (10 μF ceramic)

ABSOLUTE MAXIMUM RATINGS

Rating	Symbol	Value	Unit
Input Supply Voltage Range ($V_{cc} \geq PV_{CC}$) (Note 1)	PV_{CC}, V_{CC}	−0.3 to 6	V
Output Voltage Range	V_{TT}	−0.3 to 6	V
Reference Input Range	V_{REF}	−0.3 to 6	V
Maximum Junction Temperature	$T_{J(max)}$	125	

ELECTRICAL CHARACTERISTICS

PV_{CC} = 1.8 V / 1.5 V; V_{CC} = 5 V; V_{REF} = 0.9 V / 0.75 V; C_{OUT} = 10 μF (Ceramic); T_A = +25°C, unless otherwise noted.

Parameter	Test Conditions	Symbol	Min	Typ	Max	Unit
REGULATOR OUTPUT						
Output Offset Voltage	I_{out} = 0 A	V_{OS}	−20	−	+20	mV
Load Regulation	V_{REF} = 900 mV, I_{out} = ±1.8 A, PV_{CC} = 1.8 V V_{REF} = 750 mV, I_{out} = ±1.4 A, PV_{CC} = 1.5 V	Reg_{load}	−10	−	+10	mV
INPUT AND STANDBY CURRENTS						
Bias Supply Current	I_{out} = 0 A	I_{BIAS}	−	0.8	2.5	mA
Standby Current	V_{REF} < 0.2 V (Shutdown), R_{LOAD} = 180Ω	I_{STB}	−	1	90	μA
CURRENT LIMIT PROTECTION						
Current Limit	PV_{CC} = 1.8 V, V_{REF} = 0.9 V	I_{LIM}	2.0	−	3.5	A
	PV_{CC} = 1.5 V, V_{REF} = 0.75 V		1.5			

TYPICAL CHARACTERISTICS

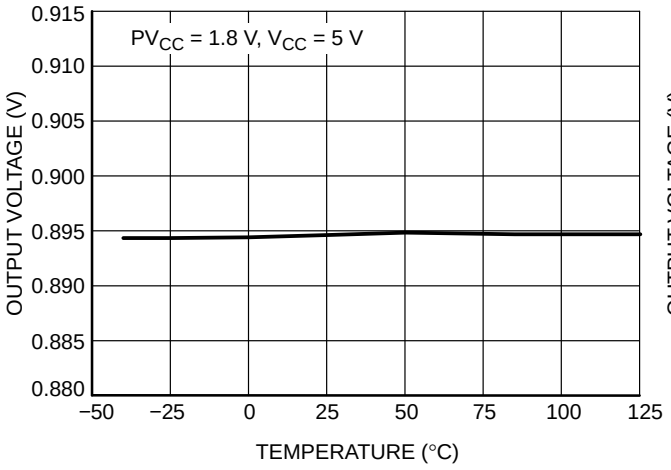

Figure 2. Output Voltage vs. Temperature

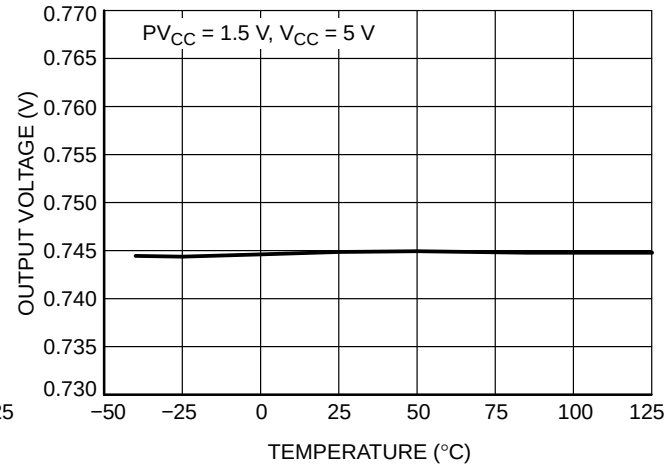

Figure 3. Output Voltage vs. Temperature

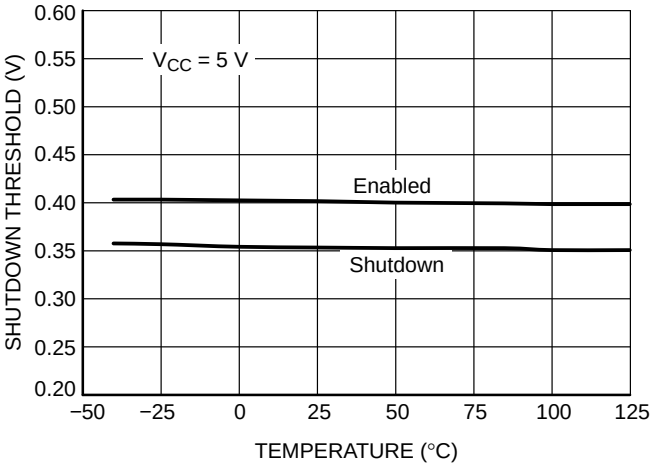

Figure 4. Shutdown Threshold vs. Temperature

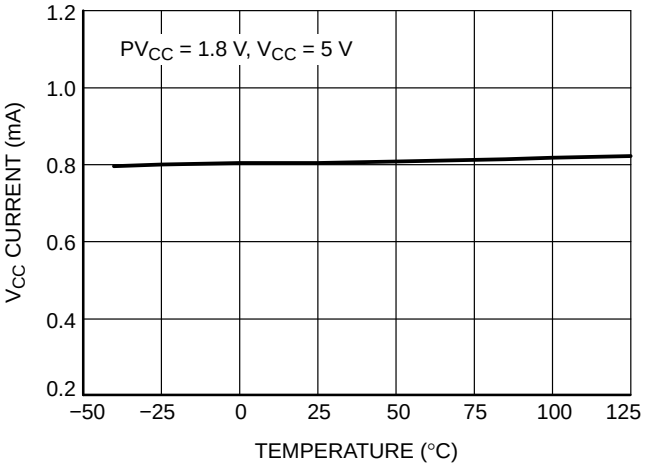

Figure 5. V_{CC} Current vs. Temperature

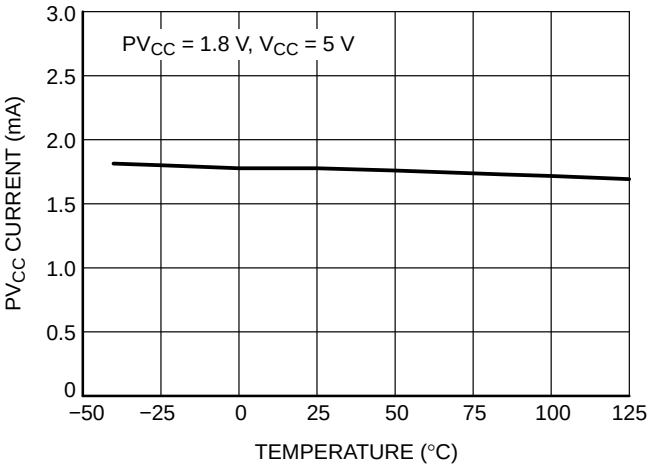

Figure 6. PV_{CC} Current vs. Temperature

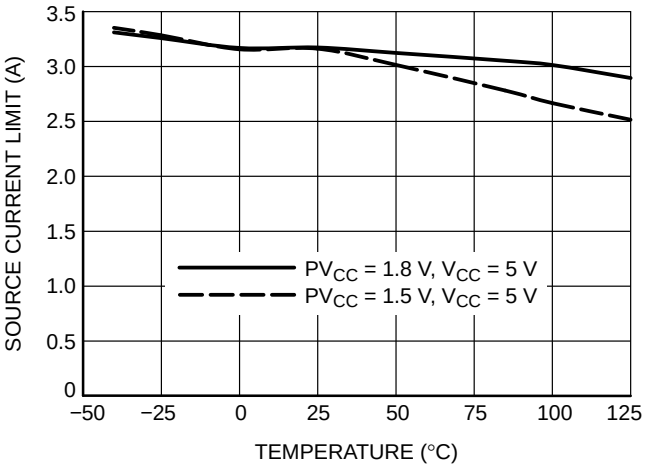

Figure 7. Source Current Limits vs. Temperature

TYPICAL CHARACTERISTICS

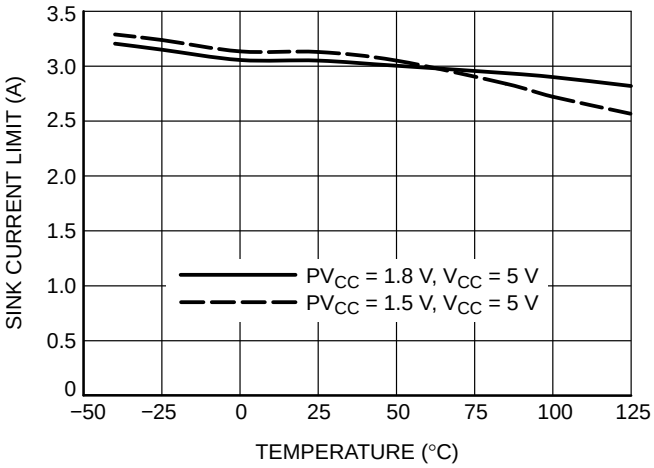

Figure 8. Sink Current Limits vs. Temperature

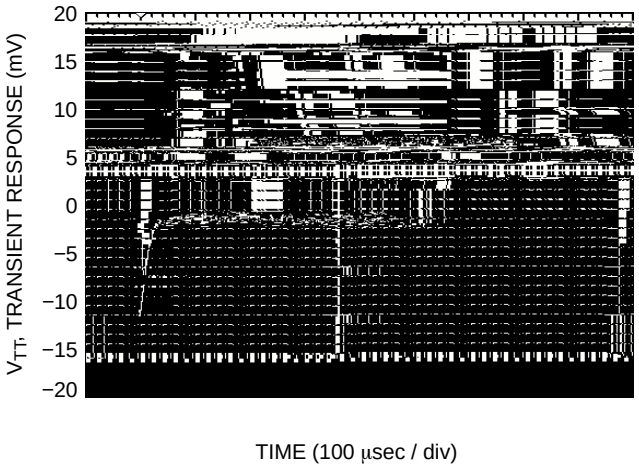

Figure 9. 1.25 V, ±1.6 A Transient Response

Table 1. ORDERING INFORMATION

A A -

H H