



MAX 924CPE
Quad Comparator w/ 1% Reference

MAX 620CPN
Quad High Side MOSFET Driver

Resistors are 1/8 W, 1% UOS
 Battery charging hysteresis is 0.4V nominal. (Range= 0.2V to 0.8V)
 Battery divider is 1.182 / 8.2V = 0.144V/V nominal at comparator pin-4
 Signal at "A" is 0V or 2.36V (Note: 2.36V = 2 * Vref)
 R2 + R3 is 1.182M Ohm nominal. I = +/- 1.0uA
 +/- 1.0uA into R1=28.7k gives +/- .0288V hysteresis at pin-5
 With Vbatt = 8.1V, comparator Pin-13 is at 1.182V (Green LED)
 With Vbatt = 7.8V, comparator Pin-11 is at 1.182V (Amber LED)
 With Vbatt = 7.5V, comparator Pin-7 is at 1.182V (Red LED)
 Measured voltage drop: 15.8mV @ 3.0A
 Weight with all cables and connectors: 10.2 ounces

State of Charge	Battery Voltage	Highest LED
100%	8.4	Green
>75%	>8.1	Green
>50%	>7.8	Amber
>25%	>7.5	Red
<25%	<7.5	ALL OFF

Charge Controller & Battery Monitors

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