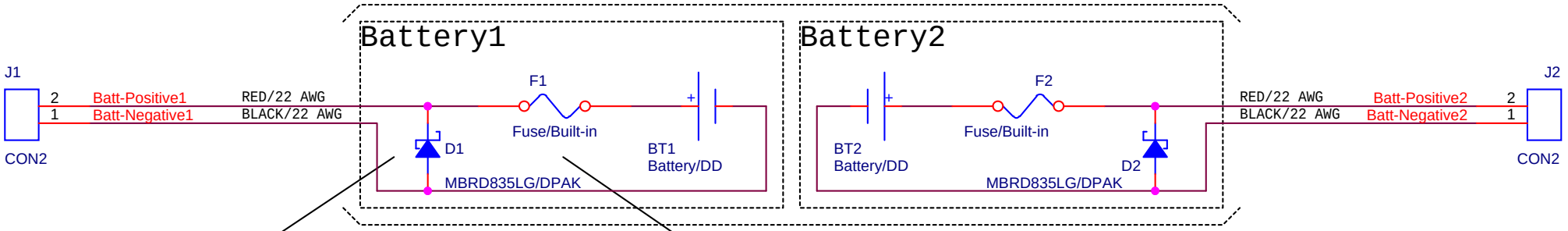

Diode:
MBRD835LG/DPAK
8A, 35V
Forward Voltage 0.45V @ 10A @ 25C
Forward Voltage 0.36V @ 2A @ 25C
Reverse current 20uA @3V @ 25V

Discharge by diode:
20uA * 24H * 365 days / 30 AH = 0.6% per year

Fuse, battery option 1:
7A fuse, Little Fuse 429-007, fast acting, 1206 size

Fuse, battery option 2:
4A fuse, Little Fuse 466-004, fast acting, 1206 size

Assembly notes:
1. Use cells with the same chemistry and part number
2. Use cells with the same batch number and charge state
3. Solder to the solder tabs only
4. Do not force cells into housing. This could deform the cell causing an internal short circuit or fracturing glass-to-metal seal

Battery option 1:
Chemistry: Lithium / Sulfuryl Chloride
Model CSC93
Part number: 3B0036-XB
Termination: solder tabs
Shunt diode: 8A
Fuse: 7A fuse
Open circuit voltage: 3.9V
Cut-off voltage: 2V
Rated curent: 1.0A
Rated Capacity: 30AH
Maximum Continous current: 4A

Battery option 2:
Chemistry: LITHIUM BROMINE CHLORIDE
Model: BCX85
Part number: 3B0076-XB
Termination: solder tabs
Shunt diode:
Fuse: 4A fuse
Open circuit voltage: 3.9V
Cut-off voltage: 2V
Rated curent: 0.35A
Rated Capacity: 30AH
Maximum Continous current: 3A

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Engineer Klimov 831-775-1914		Page Title **Battery Stick Assembly**	Project: BEDS
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