

WORLD'S SMALLEST OVERVOLTAGE PROTECTION CONTROLLERS

Protect Up to +28V and Drive Low-Cost, Low R_{ON} nMOS FET

The MAX4843–MAX4846 protect low-voltage systems against voltages up to +28V. If the input voltage exceeds the overvoltage trip level, the device turns off a low-cost, n-channel FET and asserts FLAG high to alert the microprocessor (μ P). These devices are available in a tiny, 6-pin μ DFN.

Save Board Space

- ◆ 6-Pin μ DFN (6x Smaller than the Competition)

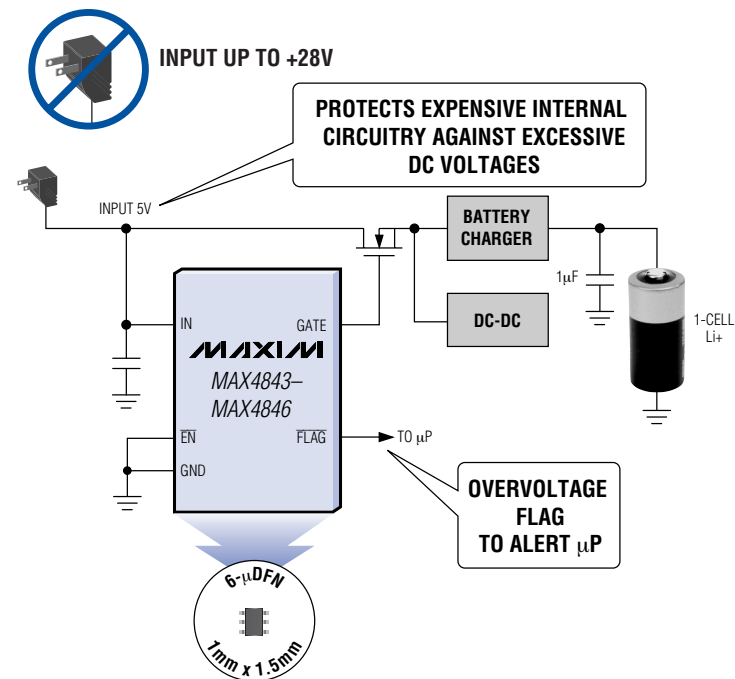
Reduce Component Cost

- ◆ Integrated Charge Pump
- ◆ Drive Low-Cost nMOS FET
- ◆ Eliminate More than Four External Components

Improve Performance

- ◆ +28V Overvoltage Protection
- ◆ Lower Dropout (nMOS)
- ◆ Soft-Start
- ◆ Low Supply Current (60 μ A)
- ◆ Undervoltage Lockout (UVLO)
- ◆ Fast GATE Turn-Off (6 μ s)
- ◆ \pm 15kV ESD Protection (1 μ F Bypass Capacitor)

WRONG ADAPTER



Part	Overvoltage Trip Level (V)	UVLO (V)	Supply Current (μ A)	Input Voltage (V)	Package (mm x mm)
MAX4843/MAX4844/MAX4854	7.40/6.35/5.80	4.15	70	1.2 to 28	6- μ DFN (1 x 1.5)
MAX4846	4.65	2.5	60	1.2 to 28	6- μ DFN (1 x 1.5)
MAX4838/MAX4840	7.40/5.80	3.25	140	1.2 to 28	6-SC70
MAX4842	4.70	3.00	130	1.2 to 28	6-SC70



www.maxim-ic.com

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