



2/06/2001

RWY MAXIM INTEGRATED PRODUCTS

Int01Q3a\_bom / 1856-24b

MAX1856 5VIN to -72Vout @60mA or -24V@150mA

Table 1: BILL OF MATERIALS

| DESIGNATION | QTY | DESCRIPTION  |
|-------------|-----|--|
| C1A, C1B    | 2   | 22 $\mu$ F, 10V X5R ceramic capacitor (1812)<br>Taiyo Yuden LMK432BJ226MM  |
| C2          | 1   | 1 $\mu$ F 6.3V ceramic capacitor (0603)<br>Taiyo YudenJMK107BJ105MA        |
| C3          | 1   | 5.6 $\mu$ F 100V Electrolytic capacitor (through hole)<br>Sanyo 100MV5.6AX |
| C4          | 1   | 33 $\mu$ F 35V Electrolytic capacitor (through hole)<br>Sanyo 35MV33AX     |
| C5          | 1   | 2200 pF X5R ceramic capacitor (0603)                                       |
| C6          | 1   | 0.22 $\mu$ F X5R ceramic capacitor (0603)                                  |
| C7          | 1   | 1000pF X5R ceramic capacitor (0603)  |
| C8          | 1   | 100 pF, 100V ceramic capacitor (0805)                                      |
| D1          | 1   | 1A, 100V Schottky rectifier<br>On Semiconductor MBRS1100                   |
| D2          | 1   | 1A, 200V ultrafast rectifier<br>On Semiconductor MURS120                   |
| Q1          | 1   | 30 mOhm 30V N-channel MOSFET<br>Fairchild FDS6612A (SO-8)                  |
| R1          | 1   | 10 $\Omega$ , 5% resistor (0603)   |
| R2          | 1   | 200k $\Omega$ , 5% resistor (0603)   |
| R3          | 1   | 0.03 $\Omega$ , sense resistor ( 1206)                                     |
| R4          | 1   | 536k $\Omega$ , 1% resistor (0603)   |
| R5          | 1   | 909k $\Omega$ , 1% resistor (0603)   |
| R6          | 1   | 5.11 k $\Omega$ , 1% resistor (0603)                                       |
| R7          | 1   | 100 $\Omega$ , 5% resistor (0603)  |
| R8          | 1   | 70 $\Omega$ , 5%, 0.5W, resistor (2010)                                    |
| T1          | 1   | Custom transformer (TDK RM4 core)  |
| U1          | 1   | MAX1856EUB (10-uMAX)   |