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TIDA-01167A REV Rev B Bill of Materials

| Item # | Designator | Quantity | Value | PartNumber | Manufacturer | Description | PackageReference |
|--------|-------------------------------------|----------|-------|--------------------|-----------------------------|--|----------------------------|
| 1 | IPCB1 | 1 | | TIDA-01167A | Any | Printed Circuit Board | |
| 2 | C1, C5 | 2 | 4.7uF | GRM32ER71K475KE14L | MuRata | CAP, CERM, 4.7 μ F, 80 V, +/- 10%, X7R, 1210 | 1210 |
| 3 | C2, C9 | 2 | 0.1uF | GRM188R72A104KA35J | MuRata | CAP, CERM, 0.1 μ F, 100 V, +/- 10%, X7R, 0603 | 0603 |
| 4 | C3, C4, C6 | 3 | 0.1uF | VJ1206Y104KBBAT4X | Vishay-Vitramon | CAP, CERM, 0.1 μ F, 100 V, +/- 10%, X7R, 1206 | 1206 |
| 5 | C7 | 1 | 0.1uF | GRM188R71H104KA93D | MuRata | CAP, CERM, 0.1 μ F, 50 V, +/- 10%, X7R, 0603 | 0603 |
| 6 | C8 | 1 | 0.1uF | GRM155R71E104KE14D | MuRata | CAP, CERM, 0.1 μ F, 25 V, +/- 10%, X7R, 0402 | 0402 |
| 7 | C10 | 1 | 10uF | GRM219R61E106MA12 | MuRata | CAP, CERM, 10 μ F, 25 V, +/- 20%, X5R, 0805 | 0805 |
| 8 | C11 | 1 | 47uF | GRM31CR61A476KE15L | MuRata | CAP, CERM, 47 μ F, 10 V, +/- 10%, X5R, 1206 | 1206 |
| 9 | D1 | 1 | 24V | 5.0SMDJ24A | Littelfuse | Diode, TVS, Uni, 24 V, 5000 W, SMC | SMC |
| 10 | D2 | 1 | 13V | PTVS13VS1UR,115 | NXP Semiconductor | Diode, TVS, Uni, 13 V, W, SOD-123W | SOD-123W |
| 11 | D3 | 1 | 54V | 5.0SMDJ54A | Littelfuse | Diode, TVS, Uni, 54 V, 5000 W, SMC | SMC |
| 12 | D4 | 1 | 68V | BZX84C68LT1G | ON Semiconductor | Diode, Zener, 68 V, 225 mW, SOT-23 | SOT-23 |
| 13 | D5 | 1 | 100V | BAS316,115 | NXP Semiconductor | Diode, Ultrafast, 100 V, 0.25 A, SOD-323 | SOD-323 |
| 14 | D6, D10 | 2 | 70V | 1N5711WS-7-F | Diodes Inc. | Diode, Schottky, 70 V, 0.015 A, SOD-323 | SOD-323 |
| 15 | D7 | 1 | 75V | 1N4448WX-TP | Micro Commercial Components | Diode, Switching, 75 V, 0.25 A, SOD-323 | SOD-323 |
| 16 | D8 | 1 | 60V | SMAJ60A | Littelfuse | Diode, TVS, Uni, 60 V, 400 W, SMA | SMA |
| 17 | D9 | 1 | 70V | BAS 170W E6327 | Infineon Technologies | Diode, Schottky, 70 V, 0.07 A, AEC-Q101, SOD-323 | SOD-323 |
| 18 | D11 | 1 | Green | LNJ337W83RA | Panasonic | LED, Green, SMD | 1.6x0.8mm |
| 19 | J1, J2, J3, J4 | 4 | | 7693 | Keystone | Terminal screw, vertical, snap-in | 7693 |
| 20 | J5 | 1 | | HTSW-102-07-G-S | Samtec | Header, 100mil, 2x1, Gold, TH | Header, 100mil, 2x1, TH |
| 21 | Q1, Q2 | 2 | 100V | CSD19532Q5B | Texas Instruments | MOSFET, N-CH, 100 V, 17 A, SON 5x6mm | SON 5x6mm |
| 22 | Q3 | 1 | 80 V | MMBTA06-7-F | Diodes Inc. | Transistor, NPN, 80 V, 0.5 A, SOT-23 | SOT-23 |
| 23 | Q4 | 1 | 100V | BSS123 | Fairchild Semiconductor | MOSFET, N-CH, 100 V, 0.17 A, SOT-23 | SOT-23 |
| 24 | R1, R4, R9, R11, R12, R14, R17, R19 | 8 | 10.0k | CRCW040210K0FKED | Vishay-Dale | RES, 10.0 k, 1%, 0.063 W, 0402 | 0402 |
| 25 | R2, R3 | 2 | 200 | CRCW1206200RFKEA | Vishay-Dale | RES, 200, 1%, 0.25 W, 1206 | 1206 |
| 26 | R5, R20 | 2 | 510k | CRCW0402510KJNED | Vishay-Dale | RES, 510 k, 5%, 0.063 W, 0402 | 0402 |
| 27 | R6 | 1 | 392k | CRCW0805392KFKEA | Vishay-Dale | RES, 392 k, 1%, 0.125 W, 0805 | 0805 |
| 28 | R7 | 1 | 2.00k | CRCW04022K00FKED | Vishay-Dale | RES, 2.00 k, 1%, 0.063 W, 0402 | 0402 |
| 29 | R8 | 1 | 15k | CRCW040215K0JNED | Vishay-Dale | RES, 15 k, 5%, 0.063 W, 0402 | 0402 |
| 30 | R10, R13, R18 | 3 | 261k | CRCW0402261KFKEA | Vishay-Dale | RES, 261 k, 1%, 0.063 W, 0402 | 0402 |
| 31 | R15 | 1 | 18.0k | CRCW040218K0FKED | Vishay-Dale | RES, 18.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402 | 0402 |
| 32 | TP1, TP2 | 2 | | 5000 | Keystone | Test Point, Miniature, Red, TH | Red Miniature Testpoint |
| 33 | TP3, TP4 | 2 | | 5004 | Keystone | Test Point, Miniature, Yellow, TH | Yellow Miniature Testpoint |
| 34 | U1 | 1 | | LM5060Q1MMX/NOPB | Texas Instruments | High-Side Protection Controller with Low Quiescent Current, 10-pin MSOP, Pb-Free | MUB10A |
| 35 | U2 | 1 | | LM2903AVQD | Texas Instruments | Dual Comparator, D0008A | D0008A |
| 36 | U3 | 1 | | TPS7A1650DGNR | Texas Instruments | Single Output LDO, 100 mA, Fixed 5 V Output, 3 to 60 V Input, with Enable and Power Good, 8-pin MSOP (DGN), -40 to 125 degC, Green (RoHS & no Sb/Br) | DGN0008C |
| 37 | FID1, FID2, FID3 | 0 | | N/A | N/A | Fiducial mark. There is nothing to buy or mount. | Fiducial |
| 38 | R16 | 0 | 10.0k | CRCW040210K0FKED | Vishay-Dale | RES, 10.0 k, 1%, 0.063 W, 0402 | 0402 |

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