

| Item No. | Designator                                                                   | Quantity | Value | Part Number                | Manufacturer            | Description                         | Package name     | Standard dimensions mm (inch) | Not Mounted |
|----------|------------------------------------------------------------------------------|----------|-------|----------------------------|-------------------------|-------------------------------------|------------------|-------------------------------|-------------|
| 1        | U1, U2                                                                       | 2        |       | UCC27517DBV                | TI                      | Gate Driver                         | SOT-23-5         |                               |             |
| 2        | U3                                                                           | 1        |       | UCC28711                   | TI                      | Constant-Voltage/Current Controller | 7-SOIC           |                               |             |
| 3        | U4                                                                           | 1        |       | LM317MDCY                  | TI                      | Voltage Reference                   | SOT-223-4        |                               |             |
| 4        | U5, U6, U7                                                                   | 3        |       | L6498D                     | ST Micro                | Gate Driver                         | 8-SOIC           |                               |             |
| 5        | U8, U9, U10, U11, U12, U13                                                   | 6        |       | UCC24612                   | TI                      | Synchronous Rectifier               | SOT-23-5         |                               |             |
| 6        | U14                                                                          | 1        |       | LM5050MK-2                 | TI                      | FET Controller                      | SOT-23-6         |                               |             |
| 7        | Q1, Q2                                                                       | 2        |       | <a href="#">TK080N60Z1</a> | <a href="#">TOSHIBA</a> | N-ch MOSFET, 600V, 80mΩ             | TO-247           |                               |             |
| 8        | Q3                                                                           | 1        |       | <a href="#">TK12A80W</a>   | <a href="#">TOSHIBA</a> | N-ch MOSFET, 800V, 11.5A            | TO-220SIS        |                               |             |
| 9        | Q4, Q5, Q6, Q7, Q8, Q9                                                       | 6        |       | <a href="#">TK125A60Z1</a> | <a href="#">TOSHIBA</a> | N-ch MOSFET, 600V, 11.5A            | TO-220SIS        |                               |             |
| 10       | Q10, Q11, Q12, Q13, Q14, Q15                                                 | 6        |       | <a href="#">TPH9R00CQH</a> | <a href="#">TOSHIBA</a> | N-ch MOSFET, 150V, 64A              | SOP Advance      |                               |             |
| 11       | Q16                                                                          | 1        |       | <a href="#">TPH2R408QM</a> | <a href="#">TOSHIBA</a> | N-ch MOSFET, 80V, 120A              | SOP Advance      |                               |             |
| 12       | ZD1, ZD2, ZD3, ZD4                                                           | 4        |       | <a href="#">CUZ20V</a>     | <a href="#">TOSHIBA</a> | Zener Diode, 20V, 200mW             | SOD-323 (USC)    |                               |             |
| 13       | D1, D7, D22, D23, D24, D25, D26, D27, D32, D33, D34, D35, D36, D37, D38, D39 | 16       |       | <a href="#">CRS04</a>      | <a href="#">TOSHIBA</a> | Schottky Barrier Diode, 40V, 1A     | S-FLAT           |                               |             |
| 14       | D2, D5, D12                                                                  | 3        |       | <a href="#">CRG04A</a>     | <a href="#">TOSHIBA</a> | Rectification Diode, 600V, 1A       | S-FLAT           |                               |             |
| 15       | D3, D8                                                                       | 2        |       | <a href="#">TRS8E65F</a>   | <a href="#">TOSHIBA</a> | SiC Diode, 650V, 8A                 | TO-220-2L        |                               |             |
| 16       | D4, D9                                                                       | 2        |       | <a href="#">CES388</a>     | <a href="#">TOSHIBA</a> | Schottky Barrier Diode, 40V, 0.1A   | SOD-523 (ESC)    |                               |             |
| 17       | D6, D10                                                                      | 2        |       | <a href="#">CUHS10F60</a>  | <a href="#">TOSHIBA</a> | Schottky Barrier Diode, 60V, 1A     | SOD-323HE (US2H) |                               |             |
| 18       | D11                                                                          | 1        |       | <a href="#">CMG03A</a>     | <a href="#">TOSHIBA</a> | Rectification Diode, 600V, 2A       | M-FLAT           |                               |             |
| 19       | D13                                                                          | 1        |       | <a href="#">1SS403E</a>    | <a href="#">TOSHIBA</a> | Switching Diode, 200V, 100mA        | SOD-523 (ESC)    |                               |             |
| 20       | D14, D19, D20, D21, D28, D29, D30                                            | 7        |       | <a href="#">CRF03A</a>     | <a href="#">TOSHIBA</a> | Diode, 600V, 0.7A                   | S-FLAT           |                               |             |
| 21       | D15                                                                          | 1        |       | <a href="#">CMH07</a>      | <a href="#">TOSHIBA</a> | Rectification Diode, 200V, 2A       | M-FLAT           |                               |             |
| 22       | D16                                                                          | 1        |       | RB078BM10SFNS              | ROHM                    | Schottky Barrier Diode, 100V, 5A    |                  |                               |             |
| 23       | D31                                                                          | 1        |       | SS16T3G                    | Onsemi                  | Schottky Barrier Diode, 60V, 1A     |                  |                               |             |
| 24       | CS1, CS2                                                                     | 2        |       | PA1005.100NL               | Pulse                   | Current Sensor, 500V, 20A           |                  |                               |             |

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| 25       | R1, R23                                                                        | 2        | 150kΩ |             |              | ±1%, 1/4W                        |              | 3.2 x 1.6<br>(1206)              |             |
| 26       | R2, R24                                                                        | 2        | 220kΩ |             |              | ±1%, 1/4W                        |              | 3.2 x 1.6<br>(1206)              |             |
| 27       | R3, R25, R50                                                                   | 3        | 470kΩ |             |              | ±1%, 1/4W                        |              | 3.2 x 1.6<br>(1206)              |             |
| 28       | R4, R5, R6                                                                     | 3        | 470kΩ |             |              | ±5%, 1/4W                        |              | 3.2 x 1.6<br>(1206)              |             |
| 29       | R7, R12                                                                        | 2        | 47Ω   |             |              | ±5%, 1/4W                        |              | 3.2 x 1.6<br>(1206)              |             |
| 30       | R8, R13, R38, R51, R52,<br>R53, R54, R55, R56, R57,<br>R58, R59, R84, R85, R86 | 15       | 10Ω   |             |              | ±5%, 1/4W                        |              | 3.2 x 1.6<br>(1206)              |             |
| 31       | R9, R14, R40, R66, R67,<br>R68, R69, R70, R71                                  | 9        | 10kΩ  |             |              | ±5%, 1/10W                       |              | 1.6 x 0.8<br>(0603)              |             |
| 32       | R10, R78, R79, R80, R81,<br>R82, R83                                           | 7        | 2.2Ω  |             |              | ±5%, 1/8W                        |              | 1.6 x 0.8<br>(0603)              |             |
| 33       | R11, R15                                                                       | 2        | 18Ω   |             |              | ±5%, 1/4W                        |              | 3.2 x 1.6<br>(1206)              |             |
| 34       | R16                                                                            | 1        | 22Ω   |             |              | ±5%, 1/8W                        |              | 1.6 x 0.8<br>(0603)              |             |
| 35       | R17                                                                            | 1        | 100kΩ |             |              | ±5%, 1/10W                       |              | 1.6 x 0.8<br>(0603)              |             |
| 36       | R18, R22                                                                       | 2        | 5.1Ω  |             |              | Fuse Resistor,<br>±5%, 2.1W      |              | 14.0 x 9.0                       |             |
| 37       | R19                                                                            | 1        | 56Ω   |             |              | ±5%, 1/8W                        |              | 1.6 x 0.8<br>(0603)              |             |
| 38       | R20                                                                            | 1        | 27KΩ  |             |              | ±1%, 1/5W                        |              | 1.6 x 0.8<br>(0603)              |             |
| 39       | R21                                                                            | 1        | 110kΩ |             |              | ±1%, 1/10W                       |              | 1.6 x 0.8<br>(0603)              |             |
| 40       | R26, R27, R28, R29, R30                                                        | 5        | 180kΩ |             |              | ± 5 %, 1/4W                      |              | 2.0 x 1.25<br>(0805)             |             |
| 41       | R31                                                                            | 1        | 100Ω  |             |              | ±5%, 1/8W                        |              | 1.6 x 0.8<br>(0603)              |             |
| 42       | R32, R33                                                                       | 2        | 22KΩ  | MOS1C223J   | KOA          | Metal Oxide<br>Resistor, ±5%, 1W |              |                                  |             |
| 43       | R34, R35, R36                                                                  | 3        | 220kΩ |             |              | ±5%, 1/4W                        |              | 3.2 x 1.6<br>(1206)              |             |
| 44       | R37, R45                                                                       | 2        | 2.7kΩ |             |              | ±5%, 1/10W                       |              | 1.6 x 0.8<br>(0603)              |             |
| 45       | R39                                                                            | 1        | 10Ω   |             |              | ±5%, 1/8W                        |              | 1.6 x 0.8<br>(0603)              |             |
| 46       | R41, R42                                                                       | 2        | 1Ω    |             |              | ±1%, 1/3W                        |              | 3.2 x 1.6<br>(1206)              |             |
| 47       | R43                                                                            | 1        | 27Ω   |             |              | ±5%, 1/8W                        |              | 1.6 x 0.8<br>(0603)              |             |
| 48       | R44                                                                            | 1        | 33Ω   |             |              | ±5%, 1/4W                        |              | 3.2 x 1.6<br>(1206)              |             |
| 49       | R46                                                                            | 1        | 270Ω  |             |              | ±1%, 1/10W                       |              | 1.6 x 0.8<br>(0603)              |             |
| 50       | R47                                                                            | 1        | 22kΩ  |             |              | ±5%, 1/10W                       |              | 1.6 x 0.8<br>(0603)              |             |
| 51       | R48, R49                                                                       | 2        | 820kΩ |             |              | ±1%, 1/4W                        |              | 3.2 x 1.6<br>(1206)              |             |
| 52       | R60, R61, R62, R63, R64,<br>R65                                                | 6        | 22Ω   |             |              | ±5%, 1/4W                        |              | 3.2 x 1.6<br>(1206)              |             |

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| 53       | R88, R89, R93, R94                          | 4        | 27k $\Omega$  |                     |              | $\pm 1\%$ , 1/10W              |              | 1.6 x 0.8 (0603)              |             |
| 54       | R90                                         | 1        | 330 $\Omega$  |                     |              | $\pm 5\%$ , 1/8W               |              | 1.6 x 0.8 (0603)              |             |
| 55       | R91                                         | 1        | 0 $\Omega$    |                     |              | 1A                             |              | 1.6 x 0.8 (0603)              |             |
| 56       | R95                                         | 1        | 10k $\Omega$  |                     |              | $\pm 1\%$ , 1/10W              |              | 1.6 x 0.8 (0603)              |             |
| 57       | R96, R97                                    | 2        | 1.8k $\Omega$ |                     |              | $\pm 5\%$ , 1/10W              |              | 1.6 x 0.8 (0603)              |             |
| 58       | R100, R101, R102, R103                      | 4        | 0 $\Omega$    |                     |              | $\pm 5\%$ , 1/4W               |              | 3.2 x 1.6 (1206)              |             |
| 59       | L1, L3                                      | 2        | 3mH           | ADR22H-10A030S      | UENO         | Choke Coil, 10A                |              |                               |             |
| 60       | L2, L4                                      | 2        | 335 $\mu$ H   | BCH20W-10335Y       | UENO         | Choke Coil, 10A                |              |                               |             |
| 61       | C1, C9, C22, C29, C30, C31, C77             | 7        | 0.1 $\mu$ F   |                     |              | Ceramic, 50V, $\pm 10\%$       |              | 1.6 x 0.8 (0603)              |             |
| 62       | C2, C3, C7, C8, C49                         | 5        | 1000pF        |                     |              | Ceramic, 400VAC, $\pm 20\%$    |              | 9.0 x 7.0                     |             |
| 63       | C4, C5, C6                                  | 3        | 1 $\mu$ F     | ECQUAAF105M         | Panasonic    | Film, 275VAC, $\pm 20\%$       |              |                               |             |
| 64       | C10                                         | 1        | 1 $\mu$ F     | ECWFA2J105J         | Panasonic    | Film, 630V, $\pm 5\%$          |              |                               |             |
| 65       | C11                                         | 1        | 10 $\mu$ F    |                     |              | Ceramic, 50V, $\pm 10\%$       |              | 2.0 x 1.25 (0805)             |             |
| 66       | C12, C24                                    | 2        | 1000pF        |                     |              | Ceramic, 50V, $\pm 10\%$       |              | 1.6 x 0.8 (0603)              |             |
| 67       | C13, C15                                    | 2        | 22000pF       |                     |              | Ceramic, 630V, $\pm 10\%$      |              | 3.2 x 1.6 (1206)              |             |
| 68       | C14, C16, C17                               | 3        | 330 $\mu$ F   | ELHS451VSN331M R35S | CHEMI-CON    | Electrolytic, 450V, $\pm 20\%$ |              |                               |             |
| 69       | C18                                         | 1        | 470pF         |                     |              | Ceramic, 50V, $\pm 5\%$        |              | 1.6 x 0.8 (0603)              |             |
| 70       | C19                                         | 1        | 6.8 $\mu$ F   | EKXJ451ELL6R8MJ 16S | CHEMI-CON    | Electrolytic, 450V, $\pm 20\%$ |              |                               |             |
| 71       | C20                                         | 1        | 2200pF        |                     |              | Ceramic, 250V, $\pm 20\%$      |              | 9.0 x 4.0                     |             |
| 72       | C21                                         | 1        | 330 $\mu$ F   | EKY-350ELL331MJ16S  | CHEMI-CON    | Electrolytic, 35V, $\pm 20\%$  |              |                               |             |
| 73       | C23                                         | 1        | 1200 $\mu$ F  | EKZN250ELL122MJ 25S | CHEMI-CON    | Electrolytic, 25V, $\pm 20\%$  |              |                               |             |
| 74       | C25                                         | 1        | 10 $\mu$ F    |                     |              | Ceramic, 50V, $\pm 10\%$       |              | 3.2 x 1.6 (1206)              |             |
| 75       | C26, C27, C28                               | 3        | 0.47 $\mu$ F  |                     |              | Ceramic, 50V, $\pm 10\%$       |              | 1.6 x 0.8 (0603)              |             |
| 76       | C32, C36, C40                               | 3        | 0.022 $\mu$ F |                     |              | Ceramic, 1000V, $\pm 5\%$      |              | 3.2 x 2.5 (1210)              | Not Mounted |
| 77       | C33, C34, C35, C37, C38, C39, C41, C42, C43 | 9        | 18nF          |                     |              | Ceramic, 630V, $\pm 5\%$       |              | 3.2 x 2.5 (1210)              |             |
| 78       | C46, C47, C48                               | 3        | 330pF         |                     |              | Ceramic, 1kV, $\pm 5\%$        |              | 3.2 x 1.6 (1206)              |             |
| 79       | C56, C57, C58, C59, C60, C61                | 6        | 2.2 $\mu$ F   |                     |              | Ceramic, 25V, $\pm 10\%$       |              | 1.6 x 0.8 (0603)              |             |
| 80       | C62, C63, C64, C65, C66, C67                | 6        | 1 $\mu$ F     |                     |              | Ceramic, 50V, $\pm 10\%$       |              | 1.6 x 0.8 (0603)              |             |

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| 81       | C68, C69, C70 | 3        | 1200 $\mu$ F | EKZN630ELL122ML N3S | CHEMI-CON    | Electrolytic, 63V, $\pm$ 20%      |              |                               |             |
| 82       | C72, C73      | 2        | 0.01 $\mu$ F |                     |              | Ceramic, 630V, $\pm$ 10%          |              | 3.2 x 1.6 (1206)              |             |
| 83       | C71           | 1        | 180 $\mu$ F  | EKYB630ELL181MJ 16S | CHEMI-CON    | Electrolytic, 63V, $\pm$ 20%      |              |                               |             |
| 84       | RL1           | 1        |              | ALQ312              | Panasonic    | Relay, 12V, 10A                   |              |                               |             |
| 85       | T1            | 1        |              | WT2020B             | TAMURA       | Power Transformer                 |              |                               |             |
| 86       | T2, T3, T4    | 3        |              | TR0118-168-0        | PAT          | Transformer, 500V                 |              |                               |             |
| 87       | TH1           | 1        |              | EC2F103A2-40113     | Semitec      | Thermistor, 10k $\Omega$ $\pm$ 1% |              |                               |             |
| 88       | V1            | 1        |              | ERZV10D681          | Panasonic    | Varistor, 680V, 3.5kA             |              |                               |             |
| 89       | CN5, CN10     | 2        |              | B4B-EH-A            | JST          | Connector, 250V, 3A               |              |                               |             |
| 90       | CN12          | 1        |              | B2B-PH-K-S          | JST          | Connector, 100V, 2A               |              |                               |             |
| 91       | F1            | 1        |              | 010000020Z          | LITTLE       | Fuse Holder, 250V, 20A            |              |                               |             |
| 92       | HS1           | 1        |              | 15FP23-L180         | LSI COOLER   | Heat Sink                         |              |                               |             |
| 93       | HS2           | 1        |              | 15FP23-L130         | LSI COOLER   | Heat Sink                         |              |                               |             |
| 94       | HS4           | 1        |              | 30SQ30H20           | LSI COOLER   | Heat Sink                         |              |                               |             |
| 95       | HS5           | 1        |              | 26.2SQ26.2H10       | LSI COOLER   | Heat Sink                         |              |                               |             |
| 96       | TB1           | 1        |              | OTB-771N-BL-3P      | Osada        | Terminal Block, 3 Position        |              |                               |             |
| 97       | TB2           | 1        |              | OTB-781N-B-4P       | Osada        | Terminal Block, 4 Position        |              |                               |             |

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### 第5条 準拠法

本規約の準拠法は日本法とします。

### 第6条 管轄裁判所

本リファレンスデザインに関する全ての紛争については、別段の定めがない限り東京地方裁判所を第一審の専属管轄裁判所とします。