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| Eval Board Name | SI53258-D02-AM 40-PIN QFN CUSTOMER EVB |
| Revision | 1.0 |

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|--------------|-----------|----------|
| CreationDate | Proto Rev | Released |
| 8/6/2019 | 2.00 | 0 |

End product must be RoHS compliant

| NI | Quantity | Reference | Value | Rating | Voltage | Tolerance | Type | PCB_Footprint | ManufacturerPN | Manufacturer |
|----|----------|---|--------------|--------|---------|-----------|--------------|--------------------|--------------------|--------------------|
| | 6 | C1 C2 C3 C4 C5 C6 | 0.1uF | | 10V | ±10% | X7R | C0402 C0402L | C0402X7R100-104K | Venkel |
| | 7 | C25 C28 C33 C37 C41 C44 C49 | 0.01uF | | 16V | ±20% | X7R | C0603 | C0603X7R160-103M | Venkel |
| | 7 | C26 C29 C34 C36 C42 C45 C50 | 4.7uF | | 10V | ±20% | X7R | C1206 | C1206X7R100-475M | Venkel |
| | 7 | C27 C30 C35 C38 C43 C46 C51 | 10uF | | 25V | ±20% | TANT | C6032 | T491C106M025ZT | Kemet |
| | 9 | C31 C32 C39 C40 C47 C48 C52 C69 C71 | 1uF | | 16V | ±20% | X7R | C0805 | C0805X7R160-105M | Venkel |
| | 9 | C7 C9 C11 C13 C15 C17 C19 C21 C23 | 0.1uF | | 10V | ±10% | X7R | C0402 C0402L | GRM155R71A104KA01D | MuRata |
| | 1 | C70 | 0.1uF | | 16V | ±10% | X7R | C0805 | C0805X7R160-104K | Venkel |
| | 9 | C8 C10 C12 C14 C16 C18 C20 C22 C24 | 1uF | | 10V | ±10% | X7R | C0603 C0603L | GRM188R71A105KA61D | MuRata |
| | 1 | D1 | RED | 25mA | 1.9V | | SMT, ChipLED | LED-HSMX-C170 | HSMC-C170 | Avago Technologies |
| | 1 | D2 | Blue | 20mA | 3.4V | | SMT, ChipLED | LED-HSMX-C170 | HSMR-C170 | Avago Technologies |
| | 1 | D3 | SP0503BAHT | 300mW | 20V | | TVS | SOT143-AKKK SOT143 | SP0503BAHTG | Littlefuse |
| | 1 | FB1 | 22 Ohm | 6000mA | | | SMT | L0805 | BLM21PG220SN1 | MuRata |
| | 20 | J1 J2 J3 J4 J5 J6 J7 J8 J9 J10 J11 J12 J13 J14 J15 J16 J17 J18 J19 J20 | SMA | | | | SMA | SMA-EDGE-3 | 142-0701-801 | Johnson Components |
| | 1 | J21 | CONN TRBLK 2 | 24A | | | TERM BLK | CONN-TB-1711026 | 1711026 | PHOENIX CONTACT |
| | 1 | J22 | USB Type B | | | | USB | CONN-USB-B | 61729-0010BLF | FCI |
| | 1 | JP1 | HEADER 1x3 | | | | Header | CONN-1X3 | TSW-103-07-T-S | Samtec |
| | 1 | JS1 | Jumper Shunt | | | | Shunt | N/A SHUNT | SNT-100-BK-T | Samtec |
| | 4 | R1 R2 R3 R4 | 49.9 | 1/16W | | ±1% | ThickFilm | R0402 R0402L | CR0402-16W-49R9F | Venkel |
| | 7 | R12 R15 R30 R31 R43 R47 R59 | 1.0 | 1/10W | | ±1% | ThickFilm | R0603 | CR0603-10W-1R00F | Venkel |
| | 6 | R16 R20 R32 R36 R48 R52 | 3.74K | 1/16W | | ±1% | ThickFilm | R0603 | CR0603-16W-3741F | Venkel |
| | 6 | R17 R21 R33 R37 R49 R53 | 6.65K | 1/16W | | ±1% | ThickFilm | R0603 | CR0603-16W-6651F | Venkel |
| | 6 | R18 R22 R34 R38 R50 R54 | 21.5K | 1/10W | | ±1% | ThickFilm | R0603 | CR0603-10W-2152F | Venkel |

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| | | R19 R23 R35 R39 | | | | | | | | |
| | 7 | R51 R55 R85 | 8.06K | 1/16W | | ±1% | ThickFilm | R0603 | CR0603-16W-8061F | Venkel |
| | 2 | R5 R62 | 5.90K | 1/16W | | ±1% | ThickFilm | R0603 | CR0603-16W-5901F | Venkel |
| | | R6 R10 R11 R13 R14 R26 R27 R28 R29 R42 R44 R45 | | | | | | | | |
| | 15 | R46 R57 R58 | 10K | 1/16W | | ±1% | ThickFilm | R0603 | CR0603-16W-1002F | Venkel |
| | 1 | R60 | 4.42K | 1/16W | | ±1% | ThickFilm | R0603 | CR0603-16W-4421F | Venkel |
| | 1 | R61 | 9.53K | 1/16W | | ±1% | ThickFilm | R0603 | CR0603-16W-9531F | Venkel |
| | | R63 R64 R65 R66 R67 R68 R69 R70 R71 R72 R73 R74 | | | | | | | | |
| | 16 | R75 R76 R77 R78 | 0 | 1A | | | ThickFilm | R0402 R0402L | CR0402-16W-000 | Venkel |
| | 1 | R7 | 0 | 1A | | | ThickFilm | R0603 R0603L | CR0603-16W-000 | Venkel |
| | | R79 R80 R81 R82 | | | | | | | | |
| | 6 | R83 R84 | 4.7K | 1/16W | | ±1% | ThickFilm | R0402 R0402L | CR0402-16W-4701F | Venkel |
| | | R8 R9 R24 R25 | | | | | | | | |
| | 7 | R40 R41 R56 | 4.99 | 1/4W | | ±1% | ThickFilm | R1206 | CR1206-4W-4R99F | Venkel |
| | 1 | R86 | 0.050 | 2W | | ±100PPM, ±1% | ThickFilm | R2512 | LRC-LR2512LF-01-R050F | TT Electronics |
| | | SW1 SW2 SW3 SW4 SW5 SW6 | | | | | | | | |
| | 7 | SW7 | SW4-DIP-SMT | 0.025A | 24V | | DIP | SW4-DIP-SMT | SDA04H0SB | C&K Components |
| | 1 | SW8 | SW DIP-8 | 0.025A | 24V | | DIP | SW8-J-DIP-SMT | TDA08H0JB1 | C&K Components |
| | 2 | TP1 TP22 | BLUE | | | | Loop | TESTPOINT | 151-205-RC | Kobiconn |
| | 1 | U1 | SI53258A-D02AM | | | | Timing | QFN40M6X6P0.5E4.65 | SI53258A-D02AM | SiLabs |
| | | U2 U3 U4 U5 U6 U7 U8 | | | | | | | | |
| | 7 | | TPS76201 | 100mA | | | LDO | SOT5N2.8P0.95 | TPS76201DBV | TI |

Not Installed Components

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|----|----------|---|-------|--------|---------|-----------|------|----------------|--------------------|--------------|
| | | C53 C54 C55 C56 C57 C58 C59 C60 C61 C62 C63 C64 | | | | | | | | |
| NI | 16 | C65 C66 C67 C68 | 2pF | | 50V | ±0.1pF | COG | C0402 C0402L | GRM1555C1H2R0BA01D | MuRata |
| | | TP2 TP4 TP6 TP8 TP10 TP12 TP14 TP16 TP17 TP18 | | | | | | | | |
| NI | 13 | TP19 TP20 TP21 | BLUE | | | | Loop | TESTPOINT | 151-205-RC | Kobiconn |

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| NI | 1 | TP23 | RED | | | | Loop | TESTPOINT | 151-207-RC | Kobiconn |
| NI | 1 | TP24 | BLACK | | | | Loop | TESTPOINT | 151-203-RC | Kobiconn |
| NI | 7 | TP3 TP5 TP7 TP9 TP11 TP13 TP15 | RED | | | | LOOP | TESTPOINT | 5000 | Keystone |