

RD Number: RD061

RD Title: TB67S265FTG Evaluation Circuit

| Item No. | Designator | Quantity | Value     | Part Number     | Manufacturer    | Description            | Package                | Not Mount |
|----------|------------|----------|-----------|-----------------|-----------------|------------------------|------------------------|-----------|
| 1        | C_VCC      | 1        | 0.1μF,25V |                 |                 | Chip capacitor         | 3.2mmX1.6mm            |           |
| 2        | C_VM2      | 1        | 0.1μF,25V |                 |                 | Chip capacitor         | 3.2mmX1.6mm            |           |
| 3        | C_VRFA     | 1        | 0.1μF,25V |                 |                 | Chip capacitor         | 3.2mmX1.6mm            |           |
| 4        | C_VRFB     | 1        | 0.1μF,25V |                 |                 | Chip capacitor         | 3.2mmX1.6mm            |           |
| 5        | C_VM1      | 1        | 100μF,50V |                 |                 | Electrolytic capacitor | YK,φDXL(mm)<br>=8X11.5 |           |
| 6        | C_VDD      | 1        | 10μF,25V  |                 |                 | Electrolytic capacitor | φD=8mm                 |           |
| 7        | C_OSCM     | 0        |           | PD-10           | Mac8            | Socket pin             |                        | ✓         |
| 8        | C_OSCM     | 0        | 270pF,25V | 2.54mm pitch    |                 | Leaded capacitor       |                        | ✓         |
| 9        | C_OSCM     | 1        | 270pF,25V |                 |                 | Chip capacitor         | 3.2mmX1.6mm            |           |
| 10       | C_OAP      | 0        |           |                 |                 | Chip capacitor         | 3.2mmX1.6mm            | ✓         |
| 11       | C_OAM      | 0        |           |                 |                 | Chip capacitor         | 3.2mmX1.6mm            | ✓         |
| 12       | C_OBM      | 0        |           |                 |                 | Chip capacitor         | 3.2mmX1.6mm            | ✓         |
| 13       | C_OBP      | 0        |           |                 |                 | Chip capacitor         | 3.2mmX1.6mm            | ✓         |
| 14       | CON1       | 1        |           | DF1BZ-4P-2.5DSA | Hirose Electric | Connector              |                        |           |
| 15       | CON2       | 0        |           | DF1BZ-2P-2.5DSA | Hirose Electric | Connector              |                        | ✓         |
| 16       | CON3       | 0        |           | DF1BZ-2P-2.5DSA | Hirose Electric | Connector              |                        | ✓         |
| 17       | CON4       | 1        |           | DF1BZ-3P-2.5DSA | Hirose Electric | Connector              |                        |           |
| 18       | CON5       | 1        |           | DF1BZ-3P-2.5DSA | Hirose Electric | Connector              |                        |           |
| 19       | OUT_A-     | 1        |           | ST-1-3          | Mac8            | Check pin              |                        |           |
| 20       | OUT_A+     | 1        |           | ST-1-3          | Mac8            | Check pin              |                        |           |
| 21       | OUT_B-     | 1        |           | ST-1-3          | Mac8            | Check pin              |                        |           |
| 22       | OUT_B+     | 1        |           | ST-1-3          | Mac8            | Check pin              |                        |           |
| 23       | RSA        | 1        |           | LC-22-G         | Mac8            | Check pin              |                        |           |
| 24       | RSB        | 1        |           | LC-22-G         | Mac8            | Check pin              |                        |           |
| 25       | VCC        | 1        |           | LC-22-G         | Mac8            | Check pin              |                        |           |
| 26       | VDD        | 1        |           | LC-22-G         | Mac8            | Check pin              |                        |           |

|    |         |   |            |                         |        |                 |              |   |
|----|---------|---|------------|-------------------------|--------|-----------------|--------------|---|
| 27 | VM      | 1 |            | ST-1-3                  | Mac8   | Check pin       |              |   |
| 28 | NC      | 1 |            | LC-22-G                 | Mac8   | Check pin       |              |   |
| 29 | 38      | 1 |            | LC-22-G                 | Mac8   | Check pin       |              |   |
| 30 | 39      | 1 |            | LC-22-G                 | Mac8   | Check pin       |              |   |
| 31 | VREFB   | 1 |            | LC-22-G                 | Mac8   | Check pin       |              |   |
| 32 | 42      | 1 |            | ST-1-3                  | Mac8   | Check pin       |              |   |
| 33 | OSCM    | 1 |            | LC-22-G                 | Mac8   | Check pin       |              |   |
| 34 | 44      | 0 |            | LC-22-G                 | Mac8   | Check pin       |              | ✓ |
| 35 | 45      | 1 |            | LC-22-G                 | Mac8   | Check pin       |              |   |
| 36 | 46      | 1 |            | LC-22-G                 | Mac8   | Check pin       |              |   |
| 37 | 47      | 1 |            | LC-22-G                 | Mac8   | Check pin       |              |   |
| 38 | 2       | 1 |            | LC-22-G                 | Mac8   | Check pin       |              |   |
| 39 | 3       | 1 |            | LC-22-G                 | Mac8   | Check pin       |              |   |
| 40 | 4       | 1 |            | LC-22-G                 | Mac8   | Check pin       |              |   |
| 41 | GND1    | 1 |            | ST-1-3                  | Mac8   | Check pin       |              |   |
| 42 | GND2    | 1 |            | ST-1-3                  | Mac8   | Check pin       |              |   |
| 43 | GND3    | 1 |            | ST-1-3                  | Mac8   | Check pin       |              |   |
| 44 | GND4    | 1 |            | ST-1-3                  | Mac8   | Check pin       |              |   |
| 45 | GND5    | 1 |            | ST-1-3                  | Mac8   | Check pin       |              |   |
| 46 | GND6    | 1 |            | ST-1-3                  | Mac8   | Check pin       |              |   |
| 47 | GND7    | 1 |            | ST-1-3                  | Mac8   | Check pin       |              |   |
| 48 | JP_VRF1 | 1 |            | XJ8B-0911, 2.54mm pitch | Omron  | Jumper          |              |   |
| 49 | JP_VRF1 | 1 |            | M7567-05, 2.54mm pitch  | HARWIN | Short pin       |              |   |
| 50 | JP_VRF2 | 1 |            | XJ8B-0911, 2.54mm pitch | Omron  | Jumper          |              |   |
| 51 | JP_VRF2 | 1 |            | M7567-05, 2.54mm pitch  | HARWIN | Short pin       |              |   |
| 52 | JP_VCC  | 1 |            | XJ8B-0911, 2.54mm pitch | Omron  | Jumper          |              |   |
| 53 | JP_VCC  | 1 |            | M7567-05, 2.54mm pitch  | HARWIN | Short pin       |              |   |
| 54 | R_ID    | 1 | 100kΩ,1/4W |                         |        | Leaded resistor | 2.54mm pitch |   |
| 55 | R_MOUT  | 1 | 100kΩ,1/4W |                         |        | Leaded resistor | 2.54mm pitch |   |
| 56 | R_LOUT  | 1 | 100kΩ,1/4W |                         |        | Leaded resistor | 2.54mm pitch |   |
| 57 | R_OSCM  | 0 |            | PD-10                   | Mac8   | Socket pin      |              | ✓ |
| 58 | R_OSCM  | 0 | 5.1kΩ      | 2.54mm pitch            |        | Leaded resistor |              | ✓ |
| 59 | R_OSCM  | 1 | 5.1kΩ      | 3.2mm×1.6mm             |        | Chip resistor   |              |   |
| 60 | R_VRF1  | 2 |            | PD-10                   | Mac8   | Socket pin      |              |   |

|    |        |   |          |                         |         |                 |  |   |
|----|--------|---|----------|-------------------------|---------|-----------------|--|---|
| 61 | R_VRF1 | 0 |          | 2.54mm pitch            |         | Leaded resistor |  | ✓ |
| 62 | R_VRF2 | 2 |          | PD-10                   | Mac8    | Socket pin      |  |   |
| 63 | R_VRF2 | 0 |          | 2.54mm pitch            |         | Leaded resistor |  | ✓ |
| 64 | R_RSA  | 1 | 0.22Ω,1W | 5.0mm×2.5mm             |         | Chip resistor   |  |   |
| 65 | R_RSB  | 1 | 0.22Ω,1W | 5.0mm×2.5mm             |         | Chip resistor   |  |   |
| 66 | SW2    | 1 |          | XJ8B-0311, 2.54mm pitch | Omron   | Jumper          |  |   |
| 67 | SW2    | 1 |          | M7567-05, 2.54mm pitch  | HARWIN  | Short pin       |  |   |
| 68 | SW3    | 1 |          | XJ8B-0311, 2.54mm pitch | Omron   | Jumper          |  |   |
| 69 | SW3    | 1 |          | M7567-05, 2.54mm pitch  | HARWIN  | Short pin       |  |   |
| 70 | SW4    | 1 |          | XJ8B-0311, 2.54mm pitch | Omron   | Jumper          |  |   |
| 71 | SW4    | 1 |          | M7567-05, 2.54mm pitch  | HARWIN  | Short pin       |  |   |
| 72 | SW39   | 0 |          | XJ8B-0311, 2.54mm pitch | Omron   | Jumper          |  | ✓ |
| 73 | SW39   | 0 |          | M7567-05, 2.54mm pitch  | HARWIN  | Short pin       |  | ✓ |
| 74 | SW42   | 0 |          | XJ8B-0311, 2.54mm pitch | Omron   | Jumper          |  | ✓ |
| 75 | SW42   | 0 |          | M7567-05, 2.54mm pitch  | HARWIN  | Short pin       |  | ✓ |
| 76 | SW44   | 0 |          | XJ8B-0311, 2.54mm pitch | Omron   | Jumper          |  | ✓ |
| 77 | SW44   | 0 |          | M7567-05, 2.54mm pitch  | HARWIN  | Short pin       |  | ✓ |
| 78 | SW45   | 0 |          | XJ8B-0311, 2.54mm pitch | Omron   | Jumper          |  | ✓ |
| 79 | SW45   | 0 |          | M7567-05, 2.54mm pitch  | HARWIN  | Short pin       |  | ✓ |
| 80 | SW46   | 0 |          | XJ8B-0311, 2.54mm pitch | Omron   | Jumper          |  | ✓ |
| 81 | SW46   | 0 |          | M7567-05, 2.54mm pitch  | HARWIN  | Short pin       |  | ✓ |
| 82 | SW47   | 0 |          | XJ8B-0311, 2.54mm pitch | Omron   | Jumper          |  | ✓ |
| 83 | SW47   | 0 |          | M7567-05, 2.54mm pitch  | HARWIN  | Short pin       |  | ✓ |
| 84 | IC1    | 1 |          | TB67S265FTG             | Toshiba | IC              |  |   |

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