

RD Number: RD083

RD Title: TB67H301FTG Evaluation circuit BOM

Item No.	Designator	Quantity	Value	Part Number	Manufacturer	Description	Package	Not Mount
1	IC1	1	TB67H301FTG	TB67H301FTG	TOSHIBA	Motor driver IC	QFN24	
2	IN1	1	Check terminal	—	—	Check terminal for oscilloscope		
3	SW_IN1	0	Toggle Switch	—	—	SPDT Toggle Switch		✓
4	SW_IN1	1	Pin header 3P	—	—	Single row plugs		
5	SW_IN1	1	Jump socket	—	—	Position Shunt Connector		
6	IN2	1	Check terminal	—	—	Check terminal for oscilloscope		
7	SW_IN2	0	Toggle Switch	—	—	SPDT Toggle Switch		✓
8	SW_IN2	1	Pin header 3P	—	—	Single row plugs		
9	SW_IN2	1	Jump socket	—	—	Position Shunt Connector		
10	STBY	1	Check terminal	—	—	Check terminal for oscilloscope		
11	SW_STBY	0	Toggle Switch	—	—	SPDT Toggle Switch		✓
12	SW_STBY	1	Pin header 3P	—	—	Single row plugs		
13	SW_STBY	1	Jump socket	—	—	Position Shunt Connector		
14	NISD	0	Check terminal	—	—	Check terminal for oscilloscope		✓
15	R6	0	Not mount	—	—	Chip resistor	3.2mm×1.6mm	✓
16	R6	1	30kΩ	—	—	Leaded resistor		
17	R7	0	Not mount	—	—	Chip resistor	3.2mm×1.6mm	✓
18	R7	1	20kΩ	—	—	Leaded resistor		
19	PISD	0	Check terminal	—	—	Check terminal for oscilloscope		✓
20	R4	0	Not mount	—	—	Chip resistor	3.2mm×1.6mm	✓
21	R4	0	Not mount	—	—	Leaded resistor		✓
22	R5	0	Not mount	—	—	Chip resistor	3.2mm×1.6mm	✓
23	R5	0	Not mount	—	—	Leaded resistor		✓
24	JP_ISD	1	Pin header 2P	—	—	Single row plugs		
25	JP_ISD	1	Jump socket	—	—	Position Shunt Connector		

26	R3	0	24k Ω	—	—	Chip resistor	3.2mm \times 1.6mm	✓
27	R3	0	24k Ω	—	—	Leaded resistor		✓
28	VCC	1	Check terminal	—	—	Check terminal for logic		
29	C3	1	10 μ F 25V	—	—	Electrolytic capacitor		
30	C4	1	0.1 μ F 25V	—	—	Chip capacitor	3.2mm \times 1.6mm	
31	VM	1	Check terminal	—	—	Check terminal for logic		
32	C1	1	100 μ F 50V	—	—	Electrolytic capacitor		
33	C2	1	0.1 μ F 50V	—	—	Chip capacitor	3.2mm \times 1.6mm	
34	TOFF	0	Check terminal	—	—	Check terminal for oscilloscope		✓
35	C8/R11	0	Not mount	—	—	Chip capacitor	3.2mm \times 1.6mm	✓
36	C8/R11	0	Not mount	—	—	Lead capacitor		✓
37	C8/R11	1	0 Ω	—	—	Chip resistor	3.2mm \times 1.6mm	
38	C8/R11	0	0 Ω	—	—	Leaded resistor		✓
39	OUT2	1	Check terminal	—	—	Check terminal for logic		
40	GND(SGND/PGND)	5	Check terminal	—	—	Check terminal for logic		
41	RSGND	1	Check terminal	—	—	Check terminal for oscilloscope		
42	R2	1	0 Ω	—	—	Chip resistor	5.0mm \times 2.5mm	
43	OUT1	1	Check terminal	—	—	Check terminal for logic		
44	R1	0	Not mount	—	—	Leaded resistor	3.2mm \times 1.6mm	✓
45	C5	0	Not mount	—	—	Lead capacitor	3.2mm \times 1.6mm	✓
46	CON	1	Connector	—	—	CONN HEADER VERT 2POS		
47	TON	0	Check terminal	—	—	Check terminal for oscilloscope		✓
48	C7	1	470pF	—	—	Chip capacitor	3.2mm \times 1.6mm	
49	C7	0	Not mount	—	—	Lead capacitor		✓
50	ALERT	1	Check terminal	—	—	Check terminal for oscilloscope		
51	R10	0	100k Ω 0.25W	—	—	Chip resistor	3.2mm \times 1.6mm	✓
52	R10	1	100k Ω 0.25W	—	—	Leaded resistor		
53	VREF	1	Check terminal	—	—	Check terminal for oscilloscope		
54	C6	1	0.1 μ F	—	—	Chip capacitor	3.2mm \times 1.6mm	
55	R8	0	Not mount	—	—	Chip resistor	3.2mm \times 1.6mm	✓
56	R8	0	Not mount	—	—	Leaded resistor		✓
57	R9	0	Not mount	—	—	Chip resistor	3.2mm \times 1.6mm	✓

58	R9	0	Not mount	—	—	Leaded resistor		✓
59	JP_VREF	1	Pin header 2P	—	—	Single row plugs		
60	JP_VREF	1	Jump socket	—	—	Position Shunt Connector		

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