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1 Partlist exported from
  C:/Users/Garming/Documents/EAGLE/projects/FlipdotController/v08_Flipdot.sch at
  8/14/2020 6:23 PM

2
3 Part Value          Device          Package
  Description

DESCRIPTION
          HEIGHT
MANUFACTURER_NAME
          MANUFACTURER_PART_NUMBER MF      MOUSER_PART_NUMBER
MOUSER_PRICE-STOCK
          MPN
OC_FARNELL
          OC_NEWARK POPULARITY SPICEPREFIX
4 C1  FG11X7S1H106KRT06      FG11X7S1H106KRT06      FG11X7R2A225KRT06      10F
  +/-10% 50V Ceramic Capacitor X7S
  Radial                                          10F
  +/-10% 50V Ceramic Capacitor X7S
  Radial                                          7mm
  TDK
          FG11X7S1H106KRT06      810-FG11X7S1H106KRT6
https://www.mouser.co.uk/ProductDetail/TDK/FG11X7S1H106KRT06?qs=icAhCOE9TbitO9SXaxTVkg%3D%3D

5 C2  FG11X7S1H106KRT06      FG11X7S1H106KRT06      FG11X7R2A225KRT06      10F
  +/-10% 50V Ceramic Capacitor X7S
  Radial                                          10F
  +/-10% 50V Ceramic Capacitor X7S
  Radial                                          7mm
  TDK
          FG11X7S1H106KRT06      810-FG11X7S1H106KRT6
https://www.mouser.co.uk/ProductDetail/TDK/FG11X7S1H106KRT06?qs=icAhCOE9TbitO9SXaxTVkg%3D%3D

6 C3  0,1uF          K104K15X7RF53H5      K104K15X7RF53H5
  Capacitor;Ceramic;Cap 0.1 uF Vishay K 100nF Ceramic Multilayer Capacitor, 50 V dc,
  +125C, X7R Dielectric, +/-10%
  Capacitor
          Ceramic Cap 0.1 uF Vishay K 100nF Ceramic Multilayer
  Capacitor, 50 V dc, +125C, X7R Dielectric, +/-10% mm      Vishay
  K104K15X7RF53H5
          594-K104K15X7RF53H5
https://www.mouser.co.uk/ProductDetail/Vishay-BC-Components/K104K15X7RF53H5?qs=sYfpZ29HcUSlgH5bSUHkYw%3D%3D

7 C4  0,1uF          K104K15X7RF53H5      K104K15X7RF53H5
  Capacitor;Ceramic;Cap 0.1 uF Vishay K 100nF Ceramic Multilayer Capacitor, 50 V dc,
  +125C, X7R Dielectric, +/-10%
  Capacitor
          Ceramic Cap 0.1 uF Vishay K 100nF Ceramic Multilayer
  Capacitor, 50 V dc, +125C, X7R Dielectric, +/-10% mm      Vishay
  K104K15X7RF53H5
          594-K104K15X7RF53H5
https://www.mouser.co.uk/ProductDetail/Vishay-BC-Components/K104K15X7RF53H5?qs=sYfpZ29HcUSlgH5bSUHkYw%3D%3D

8 C5  0,1uF          K104K15X7RF53H5      K104K15X7RF53H5
  Capacitor;Ceramic;Cap 0.1 uF Vishay K 100nF Ceramic Multilayer Capacitor, 50 V dc,
  +125C, X7R Dielectric, +/-10%
  Capacitor
          Ceramic Cap 0.1 uF Vishay K 100nF Ceramic Multilayer
  Capacitor, 50 V dc, +125C, X7R Dielectric, +/-10% mm      Vishay
  K104K15X7RF53H5
          594-K104K15X7RF53H5
https://www.mouser.co.uk/ProductDetail/Vishay-BC-Components/K104K15X7RF53H5?qs=sYfpZ29HcUSlgH5bSUHkYw%3D%3D

9 C6  K104K15X7RF53H5      K104K15X7RF53H5      K104K15X7RF53H5
  Capacitor;Ceramic;Cap 0.1 uF Vishay K 100nF Ceramic Multilayer Capacitor, 50 V dc,
  +125C, X7R Dielectric, +/-10%
  Capacitor
          Ceramic Cap 0.1 uF Vishay K 100nF Ceramic Multilayer
  Capacitor, 50 V dc, +125C, X7R Dielectric, +/-10% mm      Vishay

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	K104K15X7RF53H5		594-K104K15X7RF53H5	
	https://www.mouser.co.uk/ProductDetail/Vishay-BC-Components/K104K15X7RF53H5?qs=sYfpZ29HcUSlgH5bSUHkYw%3D%3D			
10	C7	K104K15X7RF53H5	K104K15X7RF53H5	K104K15X7RF53H5
	Capacitor;Ceramic;Cap 0.1 uF Vishay K 100nF Ceramic Multilayer Capacitor, 50 V dc, +125C, X7R Dielectric, +/-10% Capacitor			
		Ceramic Cap 0.1 uF Vishay K 100nF Ceramic Multilayer Capacitor, 50 V dc, +125C, X7R Dielectric, +/-10% mm Vishay K104K15X7RF53H5		
		594-K104K15X7RF53H5		
	https://www.mouser.co.uk/ProductDetail/Vishay-BC-Components/K104K15X7RF53H5?qs=sYfpZ29HcUSlgH5bSUHkYw%3D%3D			
11	C8	860020473008	860020473008	CAPPRD250W52D630H1250
	Würth Elektronik 100uF 25V dc, Through Hole - 860020473008 WCAP-ATG5 Aluminum Electrolytic Capacitors Würth Elektronik 100uF 25V dc, Through Hole - 860020473008 WCAP-ATG5 Aluminum Electrolytic Capacitors 12.5mm Würth Elektronik			
		860020473008	710-860020473008	
	https://www.mouser.co.uk/ProductDetail/Wurth-Elektronik/860020473008?qs=0KOYDY2FL29hXRmIX2%252BovQ%3D%3D			
12	D1		SB140	
	DIOAD1413W86L463D238			
13	D2	1N5822	1N5817-B	DO41-7.6
	SCHOTTKY BARRIER RECTIFIER			
				1.0A
14	D3	1N5822	1N5817-B	DO41-7.6
	SCHOTTKY BARRIER RECTIFIER			
				1.0A
15	D4		SB140	
	DIOAD1413W86L463D238			
16	D5		SB140	
	DIOAD1413W86L463D238			
17	D6		SB140	
	DIOAD1413W86L463D238			

18	D7 DIOAD1413W86L463D238	SB140
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19	D8 DIOAD1413W86L463D238	SB140
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20	D9 DIOAD1413W86L463D238	SB140
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21	D10 DIOAD1413W86L463D238	SB140
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22	D11 DIOAD1413W86L463D238	SB140
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23	D12 DIOAD1413W86L463D238	SB140
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24	D13 DIOAD1413W86L463D238	SB140
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25	D14 DIOAD1413W86L463D238	SB140
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26	D15 DIOAD1413W86L463D238	SB140	
27	D16 DIOAD1413W86L463D238	SB140	
28	D17 DIOAD1413W86L463D238	SB140	
29	D18 DIOAD1413W86L463D238	SB140	
30	D19 DIOAD1413W86L463D238	SB140	
31	F3 04000025WR Surface Mount Fuses 0.5A 5V Surface Mount Fuses 0.5A 5V 0.582mm LITTELFUSE 04000025WR https://www.mouser.co.uk/ProductDetail/Littelfuse/04000025WR?qs=5aG0NVq1C4wtLwK55CRtPQ%3D%3D	04000025WR 576-04000025WR	FUSC1508X58N
32	IC1 L78S09CV L78S09CV, Voltage Regulator, 2A 9 V, 3-Pin TO-220 Voltage Regulator, 2A 9 V, 3-Pin TO-220 STMicroelectronics L78S09CV https://www.mouser.co.uk/ProductDetail/STMicroelectronics/L78S09CV?qs=QRsLLuHQazCCdYrl%252BmPkLQ%3D%3D	L78S09CV TO270P460X1020X2008-3P L78S09CV, 4.6mm 511-L78S09CV	

33	IC7 74HC595N 8-bit SHIFT REGISTER, output latch	74HC595N	DIL16	
34	0 IC10 74HC595N 8-bit SHIFT REGISTER, output latch	74HC595N	DIL16	
35	0 IC12 74HC595N 8-bit SHIFT REGISTER, output latch	74HC595N	DIL16	
36	0 IC14 LM7805CT Linear Voltage Reg, 5V 1A, 3-Pin TO-220 Linear Voltage Reg, 5V 1A, 3-Pin TO-220 ON Semiconductor LM7805CT https://www.mouser.co.uk/ProductDetail/ON-Semiconductor-Fairchild/LM7805CT?qs=cnIeywgm e7bzmZ37%2FiFT9w%3D%3D	LM7805CT 512-LM7805CT	TO254P470X1016X2019-3P	4.7mm
37	IC15 ULN2803A DRIVER ARRAY	ULN2803A	DIL18	
38	IC16 ULN2803A DRIVER ARRAY	5 ULN2803A	DIL18	
39	IC17 ULN2803A DRIVER ARRAY	5 ULN2803A	DIL18	

40	J1	4_PIN_FLIPDOT		
	4_PIN_FLIPDOT			
41	J2	4_PIN_FLIPDOT		
	4_PIN_FLIPDOT			
42	J3	LED-TerminalBlock	TB003-500-P05BE	TB003500P05BE
		Fixed Terminal Blocks screw type, 5.00 , horizontal, 5 poles, CUI Blue, Philip's head screw, PCB mount	Fixed Terminal Blocks screw type, 5.00 , horizontal, 5 poles, CUI Blue, Philip's head screw, PCB mount	10.7mm CUI
		Devices		
		TB003-500-P05BE	490-TB003-500-P05BE	
		https://www.mouser.co.uk/ProductDetail/CUI-Devices/TB003-500-P05BE?qs=vLWxofP3U2xXm4XKQMROaw%3D%3D		
43	J4	1=+_2=-	TB003-500-P02BE	SHDR2W100P0X500_1X2_1000X780X1
		Fixed Terminal Blocks screw type, 5.00 , horizontal, 2 poles, CUI Blue, Philip's head screw, PCB mount	Fixed Terminal Blocks screw type, 5.00 , horizontal, 2 poles, CUI Blue, Philip's head screw, PCB mount	10.3mm CUI
		Devices		
		TB003-500-P02BE	490-TB003-500-P02BE	
		https://www.mouser.co.uk/ProductDetail/CUI-Devices/TB003-500-P02BE?qs=vLWxofP3U2yAT9CFQJ%2FCaw%3D%3D		
44	JP1	PINHD-1X17	1X17	PIN
	HEADER			
45	JP2	1	PINHD-1X17	1X17
	HEADER			PIN
46	JP3	1	PINHD-2X2	2X02
	HEADER			PIN
47	K4	0	34_PIN_CONNECTOR_NEW	
	Main_Connector			
	34_PIN_CONNECTOR_NEW			

- 48 PS1 OKI-78SR-12_1.0-W36-C OKI-78SR-12_1.0-W36-C OKI-78SR_V
Switching Regulator 15-36Vin 12Vo
1A
Switching Regulator 15-36Vin 12Vo
1A mm
Murata
Electronics
OKI-78SR-12/1.0-W36-C 580-OKI78SR12/1W36C
<https://www.mouser.co.uk/ProductDetail/Murata-Power-Solutions/OKI-78SR-12-10-W36-C?qs=AQlKX63v8Rv0GpKDSR38NA%3D%3D>
- 49 Q1 IRFZ44NPBF IRFZ44NPBF TO254P483X1016X1994-3P
MOSFET N-Channel 55V 49A TO220AB Infineon IRFZ44NPBF N-channel MOSFET Transistor, 49
A, 55 V, 3-Pin TO-220AB MOSFET N-Channel 55V 49A TO220AB Infineon IRFZ44NPBF
N-channel MOSFET Transistor, 49 A, 55 V, 3-Pin TO-220AB 4.83mm
Infineon
IRFZ44NPBF 942-IRFZ44NPBF
<https://www.mouser.co.uk/ProductDetail/Infineon-Technologies/IRFZ44NPBF?qs=9%252BKlkBgLFf24zghzPg2f9g%3D%3D>
- 50 Q2 IRFZ44NPBF IRFZ44NPBF TO254P483X1016X1994-3P
MOSFET N-Channel 55V 49A TO220AB Infineon IRFZ44NPBF N-channel MOSFET Transistor, 49
A, 55 V, 3-Pin TO-220AB MOSFET N-Channel 55V 49A TO220AB Infineon IRFZ44NPBF
N-channel MOSFET Transistor, 49 A, 55 V, 3-Pin TO-220AB 4.83mm
Infineon
IRFZ44NPBF 942-IRFZ44NPBF
<https://www.mouser.co.uk/ProductDetail/Infineon-Technologies/IRFZ44NPBF?qs=9%252BKlkBgLFf24zghzPg2f9g%3D%3D>
- 51 Q3 IRFZ44NPBF IRFZ44NPBF TO254P483X1016X1994-3P
MOSFET N-Channel 55V 49A TO220AB Infineon IRFZ44NPBF N-channel MOSFET Transistor, 49
A, 55 V, 3-Pin TO-220AB MOSFET N-Channel 55V 49A TO220AB Infineon IRFZ44NPBF
N-channel MOSFET Transistor, 49 A, 55 V, 3-Pin TO-220AB 4.83mm
Infineon
IRFZ44NPBF 942-IRFZ44NPBF
<https://www.mouser.co.uk/ProductDetail/Infineon-Technologies/IRFZ44NPBF?qs=9%252BKlkBgLFf24zghzPg2f9g%3D%3D>
- 52 Q4 IRFZ44NPBF IRFZ44NPBF TO254P483X1016X1994-3P
MOSFET N-Channel 55V 49A TO220AB Infineon IRFZ44NPBF N-channel MOSFET Transistor, 49
A, 55 V, 3-Pin TO-220AB MOSFET N-Channel 55V 49A TO220AB Infineon IRFZ44NPBF
N-channel MOSFET Transistor, 49 A, 55 V, 3-Pin TO-220AB 4.83mm
Infineon
IRFZ44NPBF 942-IRFZ44NPBF
<https://www.mouser.co.uk/ProductDetail/Infineon-Technologies/IRFZ44NPBF?qs=9%252BKlkBgLFf24zghzPg2f9g%3D%3D>
- 53 R1 220 R-EU_0207/10 0207/10
RESISTOR, European
symbol
- 54 R2 1k 81 R R-EU_0207/10 0207/10
RESISTOR, European
symbol

55	R3	10k			R-EU_0207/10	0207/10
	RESISTOR,	European				
	symbol					
56	R4	47k	81	R	R-EU_0207/10	0207/10
	RESISTOR,	European				
	symbol					
57	R5	470	81	R	R-EU_0207/10	0207/10
	RESISTOR,	European				
	symbol					
58	R6	22k	81	R	R-EU_0207/10	0207/10
	RESISTOR,	European				
	symbol					
59	R7	22k	81	R	R-EU_0207/10	0207/10
	RESISTOR,	European				
	symbol					
60	R8	22k	81	R	R-EU_0207/10	0207/10
	RESISTOR,	European				
	symbol					
61	R9	22k	81	R	R-EU_0207/10	0207/10
	RESISTOR,	European				
	symbol					
62	R10	10k	81	R	R-EU_0207/10	0207/10
	RESISTOR,	European				
	symbol					

63	R11 10k RESISTOR, European symbol	81	R	R-EU_0207/10	0207/10
64	R12 22k RESISTOR, European symbol	81	R	R-EU_0207/10	0207/10
65	R13 4k7 RESISTOR, European symbol	81	R	R-EU_0207/10	0207/10
66	R14 22k RESISTOR, European symbol	81	R	R-EU_0207/10	0207/10
67	R15 22k RESISTOR, European symbol	81	R	R-EU_0207/10	0207/10
68	R16 22k RESISTOR, European symbol	81	R	R-EU_0207/10	0207/10
69	R17 22k RESISTOR, European symbol	81	R	R-EU_0207/10	0207/10

70	R18 22k RESISTOR, symbol	81 European	R	R-EU_0207/10	0207/10
71	R19 22k RESISTOR, symbol	81 European	R	R-EU_0207/10	0207/10
72	R20 22k RESISTOR, symbol	81 European	R	R-EU_0207/10	0207/10
73	R21 22k RESISTOR, symbol	81 European	R	R-EU_0207/10	0207/10
74	R22 22k RESISTOR, symbol	81 European	R	R-EU_0207/10	0207/10
75	R23 22k RESISTOR, symbol	81 European	R	R-EU_0207/10	0207/10
76	R24 22k RESISTOR, symbol	81 European	R	R-EU_0207/10	0207/10

77	R25	220	81	R	R-EU_0207/10	0207/10
	RESISTOR, European symbol					
78	R26	47k	81	R	R-EU_0207/10	0207/10
	RESISTOR, European symbol					
79	R27	220	81	R	R-EU_0207/10	0207/10
	RESISTOR, European symbol					
80	R28	47k	81	R	R-EU_0207/10	0207/10
	RESISTOR, European symbol					
81	R29	220	81	R	R-EU_0207/10	0207/10
	RESISTOR, European symbol					
82	R30	47k	81	R	R-EU_0207/10	0207/10
	RESISTOR, European symbol					
83	R31	220	81	R	R-EU_0207/10	0207/10
	RESISTOR, European symbol					
84	R32	47k	81	R	R-EU_0207/10	0207/10
	RESISTOR, European symbol					

symbol

85	RN1 10k RESISTOR	81 R	G08R	SIL9	SIL
unknown					
86	T1 IRF5305PBF MOSFET P-Channel 55V 31A TO220AB Infineon IRF5305PBF P-channel MOSFET Transistor, 31 A, 55 V, 3-Pin TO-220AB P-channel MOSFET Transistor, 31 A, 55 V, 3-Pin TO-220AB 4.69mm Infineon	unknown 6 IRF5305PBF	TO254P469X1042X1967-3P		
https://www.mouser.co.uk/ProductDetail/Infineon-Technologies/IRF5305PBF?qs=9%252BKlkBgLFf3WAOOEKAEJlw%3D%3D					
87	T2 IRFZ44NPBF MOSFET N-Channel 55V 49A TO220AB Infineon IRFZ44NPBF N-channel MOSFET Transistor, 49 A, 55 V, 3-Pin TO-220AB N-channel MOSFET Transistor, 49 A, 55 V, 3-Pin TO-220AB 4.83mm Infineon	IRFZ44NPBF	TO254P483X1016X1994-3P		
https://www.mouser.co.uk/ProductDetail/Infineon-Technologies/IRFZ44NPBF?qs=9%252BKlkBgLFf24zghzPg2f9g%3D%3D					
88	T3 IRF5305PBF MOSFET P-Channel 55V 31A TO220AB Infineon IRF5305PBF P-channel MOSFET Transistor, 31 A, 55 V, 3-Pin TO-220AB P-channel MOSFET Transistor, 31 A, 55 V, 3-Pin TO-220AB 4.69mm Infineon	IRF5305PBF	TO254P469X1042X1967-3P		
https://www.mouser.co.uk/ProductDetail/Infineon-Technologies/IRF5305PBF?qs=9%252BKlkBgLFf3WAOOEKAEJlw%3D%3D					
89	T4 BC547 TRANSISTOR	BC547	TO92	NPN	
90	T6 BD678AG Source: Datasheet	43 BD678AG	TO229P300X760X1364-3P		
Semiconductor					
BD678AG					
863-BD678AG					
https://www.mouser.co.uk/ProductDetail/ON-Semiconductor/BD678AG?qs=vNc2DXHODiLQQRiLe%252BrpJA%3D%3D					
91	T7 BD678AG Source: Datasheet	BD678AG	TO229P300X760X1364-3P		
Semiconductor					
BD678AG					
863-BD678AG					
https://www.mouser.co.uk/ProductDetail/ON-Semiconductor/BD678AG?qs=vNc2DXHODiLQQRiLe%252BrpJA%3D%3D					

	BD678AG	863-BD678AG	
	https://www.mouser.co.uk/ProductDetail/ON-Semiconductor/BD678AG?qs=vNc2DXHODiLQQRiLe%252BrpJA%3D%3D		
92	T8 BD678AG Source: Datasheet	BD678AG	TO229P300X760X1364-3P
		3mm ON	
	Semiconductor BD678AG	863-BD678AG	
	https://www.mouser.co.uk/ProductDetail/ON-Semiconductor/BD678AG?qs=vNc2DXHODiLQQRiLe%252BrpJA%3D%3D		
93	T9 BD678AG Source: Datasheet	BD678AG	TO229P300X760X1364-3P
		3mm ON	
	Semiconductor BD678AG	863-BD678AG	
	https://www.mouser.co.uk/ProductDetail/ON-Semiconductor/BD678AG?qs=vNc2DXHODiLQQRiLe%252BrpJA%3D%3D		
94	T10 BD678AG Source: Datasheet	BD678AG	TO229P300X760X1364-3P
		3mm ON	
	Semiconductor BD678AG	863-BD678AG	
	https://www.mouser.co.uk/ProductDetail/ON-Semiconductor/BD678AG?qs=vNc2DXHODiLQQRiLe%252BrpJA%3D%3D		
95	T11 BD678AG Source: Datasheet	BD678AG	TO229P300X760X1364-3P
		3mm ON	
	Semiconductor BD678AG	863-BD678AG	
	https://www.mouser.co.uk/ProductDetail/ON-Semiconductor/BD678AG?qs=vNc2DXHODiLQQRiLe%252BrpJA%3D%3D		
96	T12 BD678AG Source: Datasheet	BD678AG	TO229P300X760X1364-3P
		3mm ON	
	Semiconductor BD678AG	863-BD678AG	
	https://www.mouser.co.uk/ProductDetail/ON-Semiconductor/BD678AG?qs=vNc2DXHODiLQQRiLe%252BrpJA%3D%3D		
97	T13 BD678AG Source: Datasheet	BD678AG	TO229P300X760X1364-3P
		3mm ON	
	Semiconductor BD678AG	863-BD678AG	
	https://www.mouser.co.uk/ProductDetail/ON-Semiconductor/BD678AG?qs=vNc2DXHODiLQQRiLe%252BrpJA%3D%3D		
98	T14 BD678AG Source:	BD678AG	TO229P300X760X1364-3P

Datasheet

3mm ON

Semiconductor

BD678AG

863-BD678AG

<https://www.mouser.co.uk/ProductDetail/ON-Semiconductor/BD678AG?qs=vNc2DXHODiLQQRiLe%252BrpJA%3D%3D>

99 T15 BD678AG BD678AG TO229P300X760X1364-3P
Source:
Datasheet

3mm ON

Semiconductor

BD678AG

863-BD678AG

<https://www.mouser.co.uk/ProductDetail/ON-Semiconductor/BD678AG?qs=vNc2DXHODiLQQRiLe%252BrpJA%3D%3D>

100 T16 BD678AG BD678AG TO229P300X760X1364-3P
Source:
Datasheet

3mm ON

Semiconductor

BD678AG

863-BD678AG

<https://www.mouser.co.uk/ProductDetail/ON-Semiconductor/BD678AG?qs=vNc2DXHODiLQQRiLe%252BrpJA%3D%3D>

101 T17 BD678AG BD678AG TO229P300X760X1364-3P
Source:
Datasheet

3mm ON

Semiconductor

BD678AG

863-BD678AG

<https://www.mouser.co.uk/ProductDetail/ON-Semiconductor/BD678AG?qs=vNc2DXHODiLQQRiLe%252BrpJA%3D%3D>

102 T18\ BD678AG BD678AG TO229P300X760X1364-3P
Source:
Datasheet

3mm ON

Semiconductor

BD678AG

863-BD678AG

<https://www.mouser.co.uk/ProductDetail/ON-Semiconductor/BD678AG?qs=vNc2DXHODiLQQRiLe%252BrpJA%3D%3D>

103 T19 BD678AG BD678AG TO229P300X760X1364-3P
Source:
Datasheet

3mm ON

Semiconductor

BD678AG

863-BD678AG

<https://www.mouser.co.uk/ProductDetail/ON-Semiconductor/BD678AG?qs=vNc2DXHODiLQQRiLe%252BrpJA%3D%3D>

104 T20 BD678AG BD678AG TO229P300X760X1364-3P
Source:
Datasheet

3mm ON

Semiconductor

BD678AG

863-BD678AG

<https://www.mouser.co.uk/ProductDetail/ON-Semiconductor/BD678AG?qs=vNc2DXHODiLQQRiLe%252BrpJA%3D%3D>

105

T21

BD678AG

BD678AG

TO229P300X760X1364-3P

Source:

Datasheet

3mm

ON

Semiconductor

BD678AG

863-BD678AG

<https://www.mouser.co.uk/ProductDetail/ON-Semiconductor/BD678AG?qs=vNc2DXHODiLQQRiLe%252BrpJA%3D%3D>

106

U\$2

ARDUINOMICRO

ARDUINOMICRO

ARDUINOMICRO

107