

A

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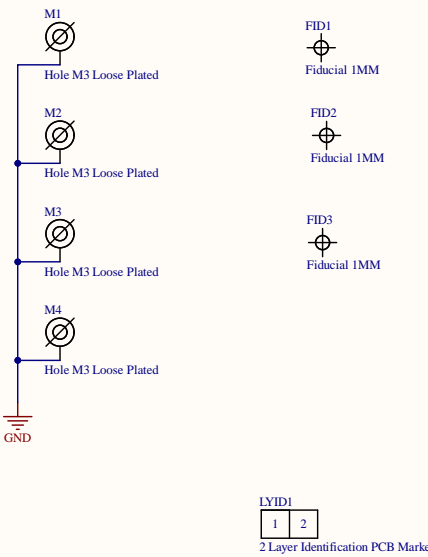
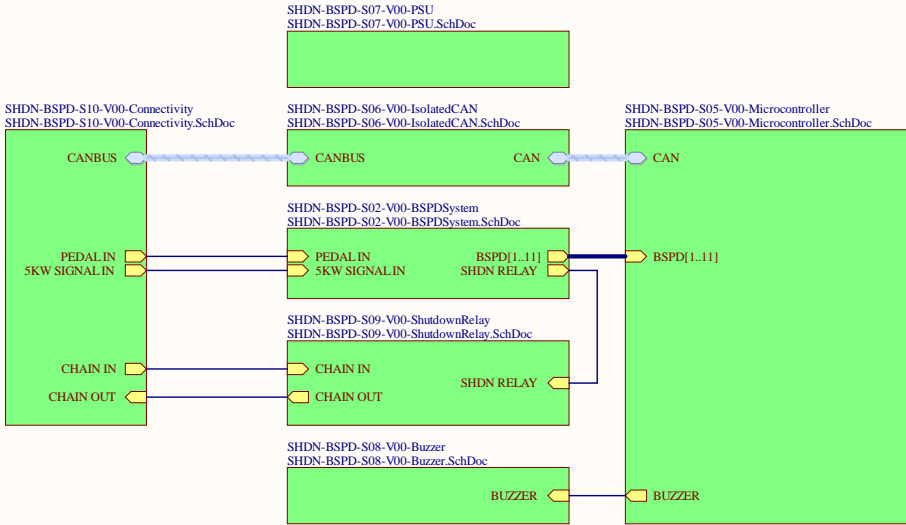
D

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Revision History:

Rev	Date	Description

Sheet Title: Brake System Plausability Device - BSPD		
Project:		QUT Motorsport O-120, Gardens Point 2 George Street Brisbane, QLD 4000 Australia
Size: A3	Number: 1	Version: 01
Drawn By: Joann Dillon		Sheet 1 of 10
Print Date: 28/07/2020		File Name: SHDN-BSPD-S01-V00-BSPDBoard.SchDoc
Print Time: 9:01:27 PM		



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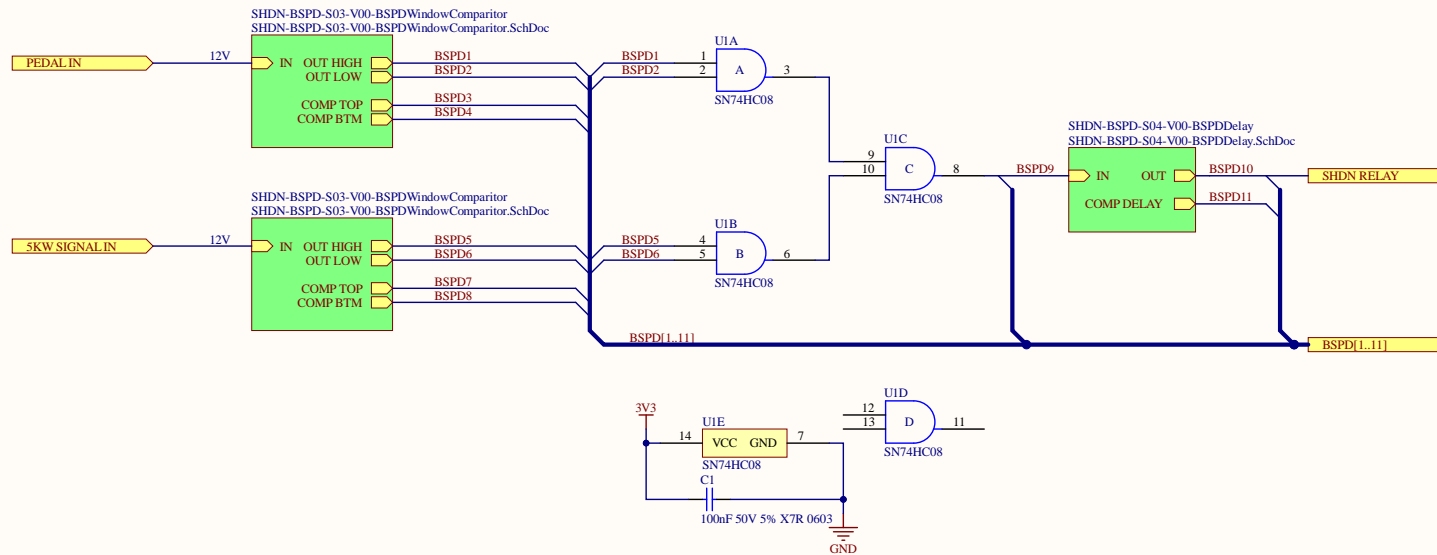
D

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Revision History:

Rev	Date	Description

Sheet Title: **BSPD System**

Project:		QUT Motorsport O-120, Gardens Point 2 George Street Brisbane, QLD 4000 Australia	
Size: A3	Number: 2	Version:	Revision: 01
Drawn By: Joann Dillon		Sheet 2 of 10	
Print Date: 28/07/2020		Print Time: 9:01:27 PM	
File Name: SHDN-BSPD-S02-V00-BSPDSystem.SchDoc			



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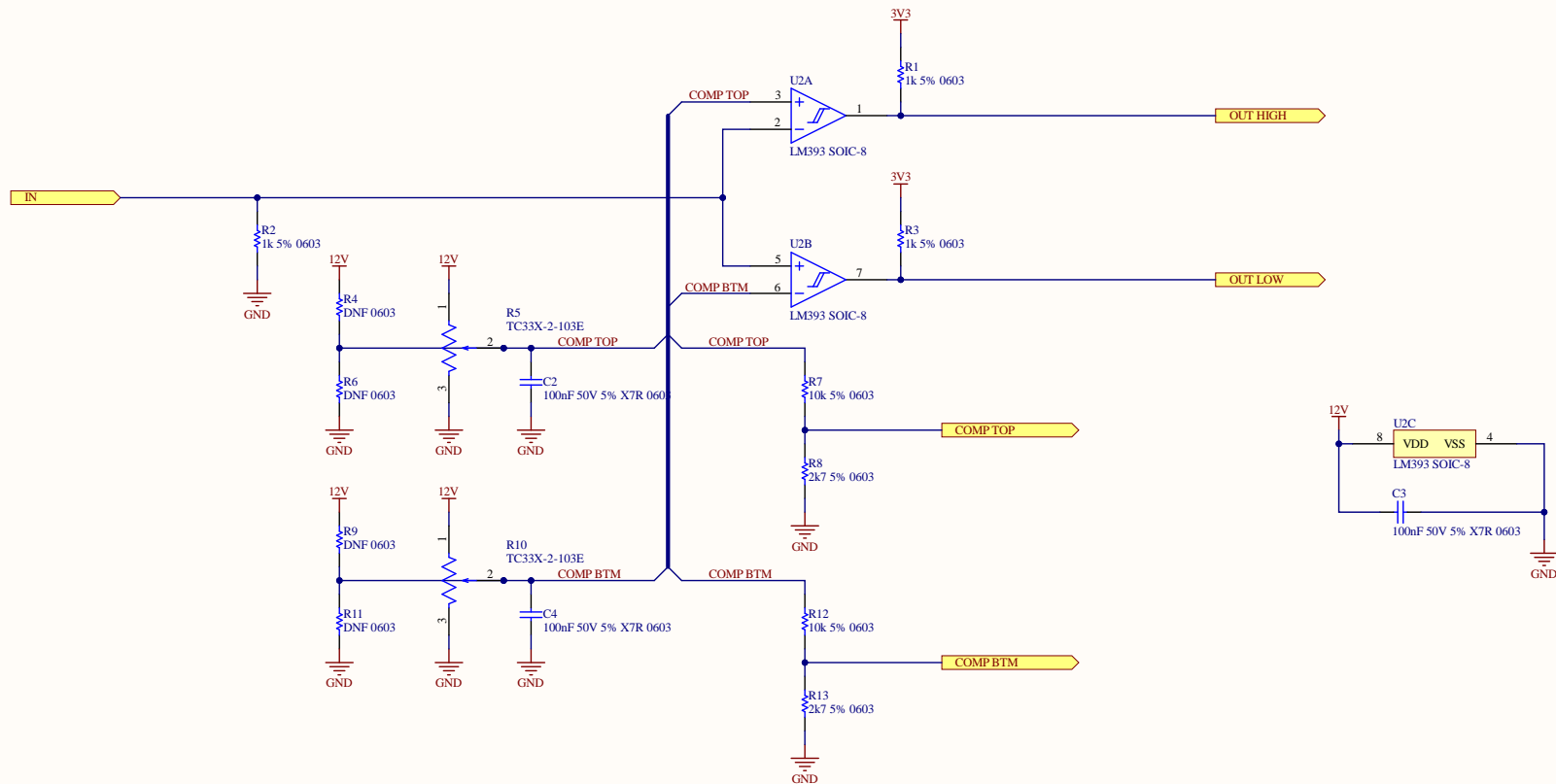
D

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Revision History:

Rev	Date	Description

Sheet Title: **Window Comparitor**

Project:		QUT Motorsport O-120, Gardens Point 2 George Street Brisbane, QLD 4000 Australia	
Size: A3	Number: 3	Version:	Revision: 01
Drawn By: Jonn Dillon		Sheet 3 of 10	
Print Date: 28/07/2020		Print Time: 9:01:27 PM	
File Name: SHDN-BSPD-S03-V00-BSPDW		WindowComparator.SchDoc	



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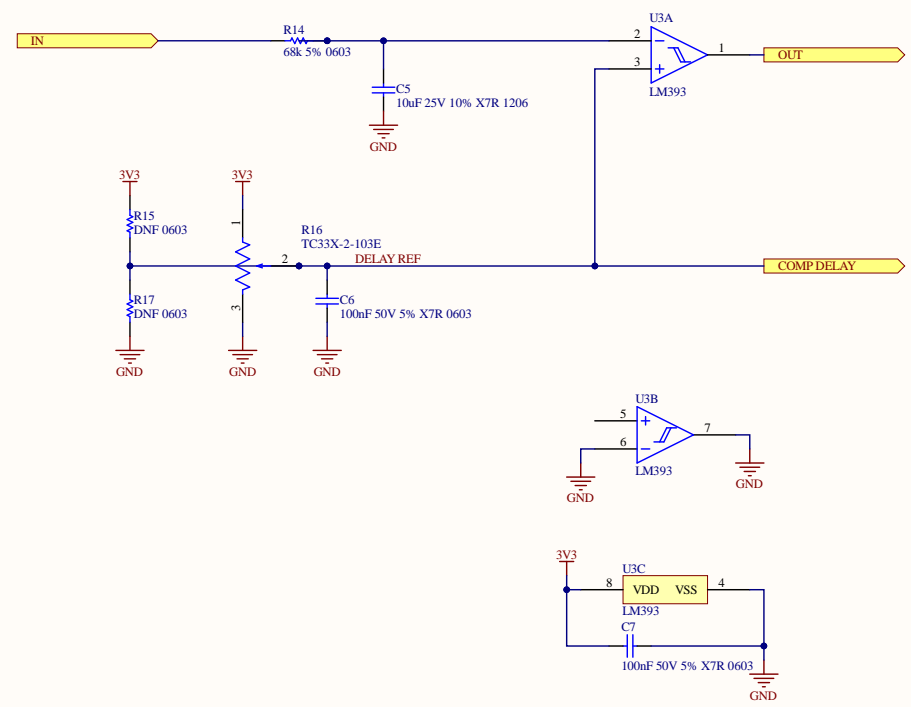
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RC Charging Circuit:
50% Charge Voltage Rise at 500ms (to compare at 2V5)
 $500\text{ms} = 0.7T = 0.7 * R * C$
 $C = 10\text{nF} = 0.01\text{F}$
 $\gg R = 71\text{k}\Omega$



Revision History:		
Rev	Date	Description

Sheet Title: **RC Charging Delay**

Project:

Size: A3

Number: **4**

Version:

Revision: **01**

Sheet **4** of **10**

Drawn By: Jonn Dillon

Print Date: 28/07/2020

Print Time: 9:01:27 PM


QUT Motorsport

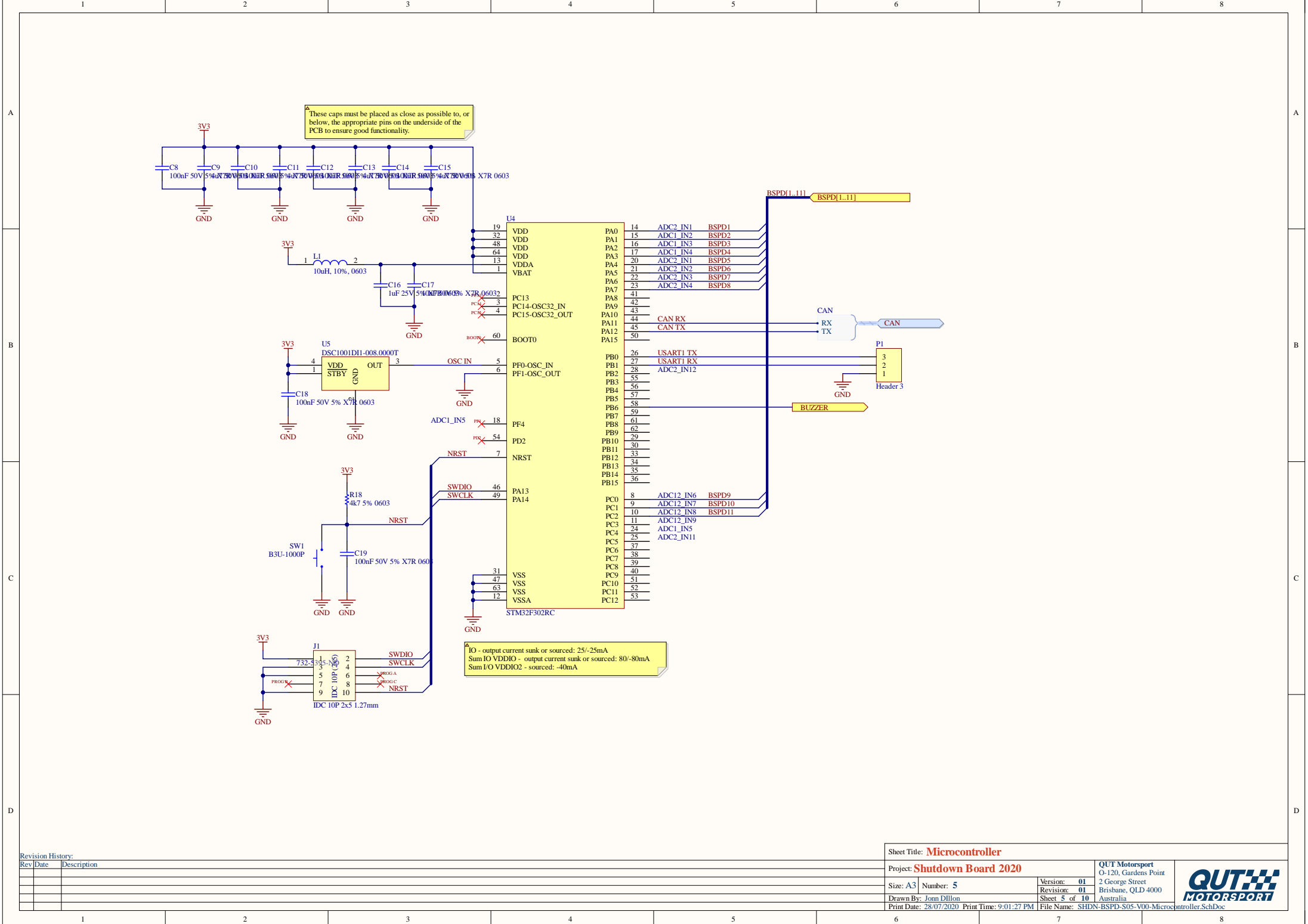
O-120, Gardens Point

2 George Street

Brisbane, QLD 4000

Australia





Revision History:

Rev	Date	Description

Sheet Title: **Microcontroller**

Project: **Shutdown Board 2020**

Size: A3

Number: **5**

Drawn By: **Joan Dillon**

Print Date: **28/07/2020** Print Time: **9:01:27 PM**

Version: **01**

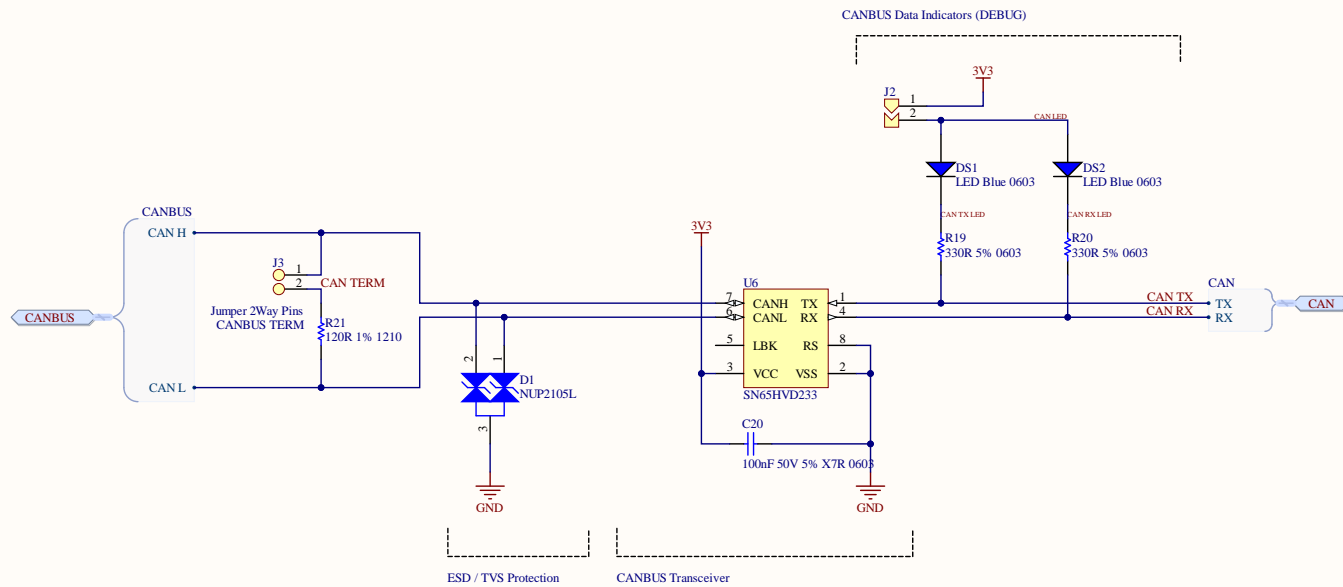
Revision: **01**

Sheet **5** of **10**

File Name: **SHDN-BSPD-S05-V00-Microcontroller.SchDoc**

QUT Motorsport
O-120, Gardens Point
2 George Street
Brisbane, QLD 4000
Australia





Revision History:

Rev	Date	Description

Sheet Title: **Isolated CANBUS @ 3V3**

Project: **Battery Managment System 2020**

Size: A3

Number: **6**

Drawn By: Joann Dillon

Print Date: 28/07/2020 Print Time: 9:01:27 PM

Version: **01**

Revision: **01**

Sheet **6** of **10**

File Name: SHDN-BSPD-S06-V00-IsolatedCAN.SchDoc

QUT Motorsport
O-120, Gardens Point
2 George Street
Brisbane, QLD 4000
Australia



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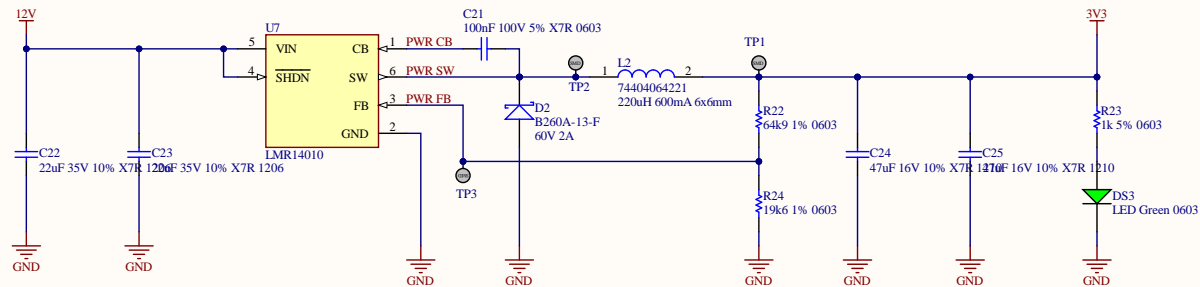
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Revision History:

Rev	Date	Description

Sheet Title: **Power Supply (20-40V to 3v3 @ 0.1-0.6A)**

Project: **Battery Management System 2020**

Size: A3 Number: **7**
Drawn By: Jonn Dillon
Print Date: 28/07/2020 Print Time: 9:01:28 PM

Version: **01**
Revision: **01**
Sheet 7 of 10
File Name: SHDN-BSPD-S07-V00-PSU.SchDoc

QUT Motorsport
O-120, Gardens Point
2 George Street
Brisbane, QLD 4000
Australia



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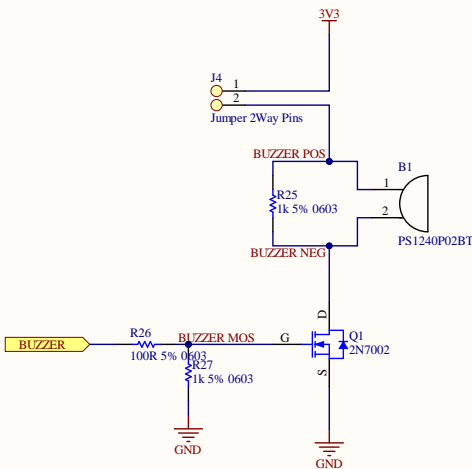
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Revision History:

Rev	Date	Description

Sheet Title: Buzzer			
Project:			
Size: A3	Number: 8	Version: 01	
Drawn By: John Dillon		Sheet 8 of 10	
Print Date: 28/07/2020		Print Time: 9:01:28 PM	
File Name: SHDN-BSPD-S08-V00-Buzzer.SchDoc			

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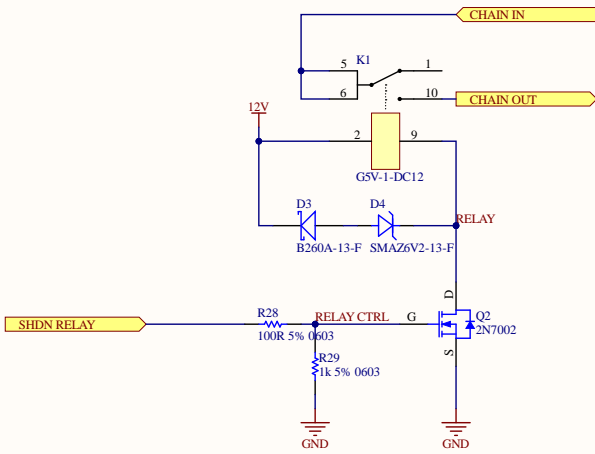
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Revision History:

Rev	Date	Description

Sheet Title: **Shutdown Relay**

Project:		QUT Motorsport O-120, Gardens Point 2 George Street Brisbane, QLD 4000 Australia	
Size: A3	Number: 9	Version:	Revision: 01
Drawn By: Jonn Dillon		Sheet 9 of 10	
Print Date: 28/07/2020		Print Time: 9:01:28 PM	
File Name: SHDN-BSPD-S09-V00-ShutdownRelay.SchDoc			



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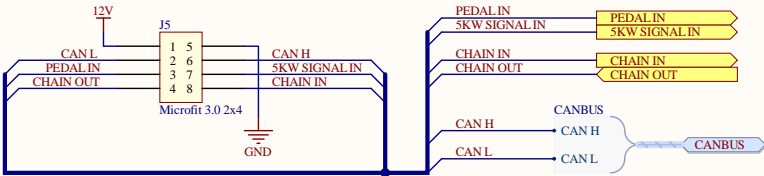
D

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Revision History:

Rev	Date	Description

Sheet Title: 8 Pin Connector		
Project:		QUT Motorsport O-120, Gardens Point 2 George Street Brisbane, QLD 4000 Australia
Size: A3	Number: 10	
Drawn By: Jonn Dillon	Version: 01	
Print Date: 28/07/2020	Revision: 01	
Print Time: 9:01:28 PM		Sheet 10 of 10
File Name: SHDN-BSPD-S10-V00-Connectivity.SchDoc		

