



**Type-C US Mux/DeMux Switch**

Truth Table

Function	SEL	PD
Port 1 is active	L	L
Port 2 is active	L	H
Both Ports Hi-Z	X	X
10 power: 0.5W		

The default OVI0 threshold is 23V when OVI0 pin shorts to GND. Internal 1M pull-down resistor on the OVI0 pin.

Reverse Current Protection  
 RP20P5090 has all time reverse current protection regardless of the RN logic level. Once the voltage on VBUS is higher than VBS for 40 mV, the RCP circuit is triggered after a 3ms de-witch time. If the voltage gap is greater than 120 mV, RCP triggers immediately to switch off the power MOSFET. During the start up de-witch time, if the device detects the VBUS voltage is higher than VBS by 60 mV, the power MOSFET does not turn on. The RCP circuit helps by providing the capability of parallel connection of two USB charging ports to a single charger input, without backward leakage.

