

A 47: -

¥ /: 301

Description

The FUSB301 is a fully autonomous Type–C controller optimized for <15 W applications. The FUSB301 offers CC logic detection for Source Mode, Sink Mode, Dual Role Port Mode, accessory detection support, and dead battery support. The FUSB301 features an external s e≿1 T211DernapTEW) to enabt Mernal

ORDERING INFORMATION

Part Number	Top Mark	Operating Temperature Range	Package	Packing Method
		_	× ×	

BLOCK DIAGRAM

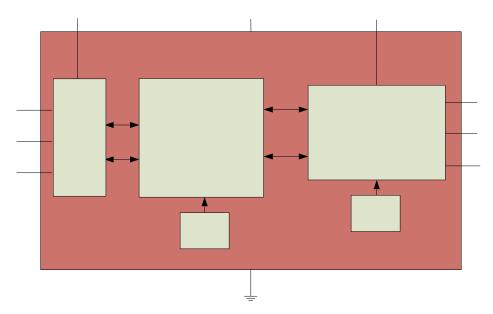


Figure 2. Block Diagram

PIN CONFIGURATION

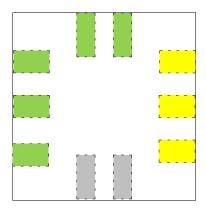


Figure 3. Pin Assignment (Top Through View)

ABSOLUTE MAXIMUM RATINGS

Symbol	Parameter	Min.	Max.	Unit			
				-			
				-			
				-			
				-		٥	
		-		٥			
					-		
					-		
	-				-		
					-		
	-	_					

RECOMMENDED OPERAING CONDITIONS

Symbol	Parameter	Min.	Тур.	Max.	Unit
		_	-		0

DC AND TRANSIENT CHARACTERISTICS

DC AND TRANSIENT CHARACTERISTICS

		T _A T _J			
Symbol	Parameter	Min.	Тур.	Max.	Unit
_					
_					
_		-	-	•	-

TIMING PARAMETERS

		$T_A = -40 \text{ to } +85^{\circ}\text{C}$ $T_J = -40 \text{ to } +125^{\circ}\text{C}$			35°C 25°C	
Symbol	Parameter	Parameter			Max.	Unit
				-		
				_		
				_		
				_		

IO SPECIFICATIONS

Symbol	Parameter	V _{DD} (V)

I²C ADDRESS

Table 3. FUSB301 I²C SLAVE ADDRESS

Name	Size (Bits)	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0

REGISTER DEFINITIONS

Table 4. REGISTER MAP

Address	Register Name	Туре	RST Val	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
×											
×											
×											
×											
×											
× -×											
×											
×											
×											

Table 7. CONTROL

×

Bit #	Name	Size (Bits)	Description
			00: 35 ms min. in Unattached.Sink and 15 ms min. In Unattached.SOURCE
			- 01: 80 μA – Default USB Power μ – μ –
			1: Global interrupt mask to mask all interrupts

Table 8. MANUAL

X

Table 10. MASK

×

Bit #	Name	Size (Bits)	Description

Table 11. STATUS

Table 13. INTERRUPTO

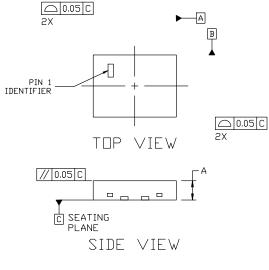
X

lame Size (Bits)	Description

onsemi t P C at t a t I^2 C t .

X2QFN10 1.60x1.20x0.37, 0.40P







NOTES:

- DIMENSIONS AND TOLERANCING AS PER ASME Y14.5M, 2018.
- CONTROLLING DIMENSION: MILLIMETERS.

DIM	MILLIMETERS					
ואודת	MIN.	N□M.	MAX.			
А	0.34	0.37	0.40			
b	0.15	0.20	0.25			
D	1.60 BSC					
E	1	.20 BSC				
е	0	.40 BSC				

*FOR ADDITIONAL INFORMATION ON OUR PB-FREE STRATEGY AND SOLDERING DETAILS, PLEASE DOWNLOAD THE ON SEMICONDUCTOR SOLDERING AND MOUNTING TECHNIQUES REFERENCES MANUAL, SOLDERRM/D.

