

DESCRIPTION

The UC2605 is an autonomous Source only Type-C controller optimized power chargers and mobile chargers. It broadcasts the available current of the charger over CC1/CC2 using the USB Type-C standard and prevents VBUS from being asserted until a valid connection has been verified. It can be used for up to 16.5W charging using Type-C protocols.

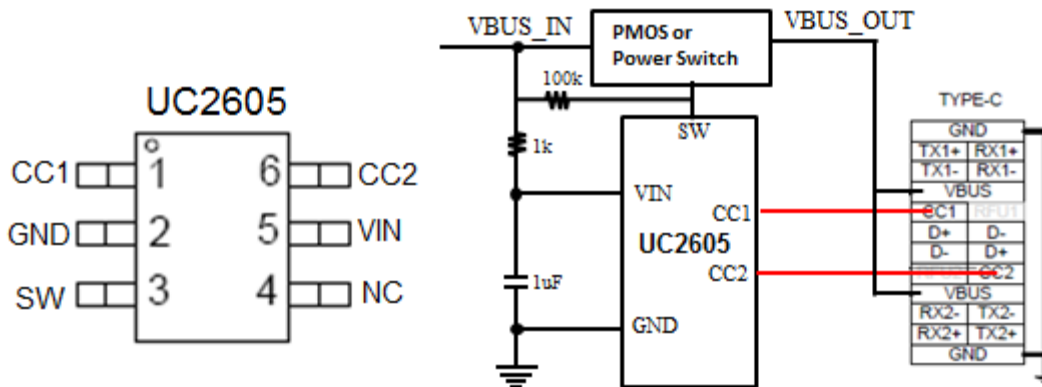
FEATURES

- 3.0V~5.5V Single Supply Operation.
- Fully Autonomous Type-C Controller Support Type-C Version 1.2.
- Support Type-C VBUS 3.0A Current
- VBUS Switch Control.
- Available in SOT23-6 Package.

APPLICATIONS

- Power Adapter
- Travel Charger
- Wall USB Charger

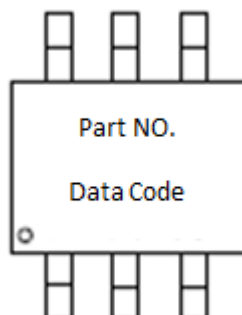
UC2605 SOT23-6 PACKAGE and SIMPLIFIED APPLICATION



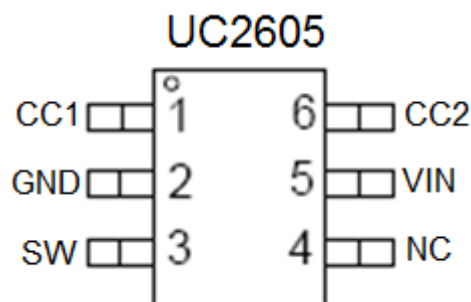
ORDING INFORMATION

Part Number	Package Type	Package Qty	Op Temp(°C)
UC2605	SOT23-6	3000	-40~85

MARK INFORMATION



PINOUT



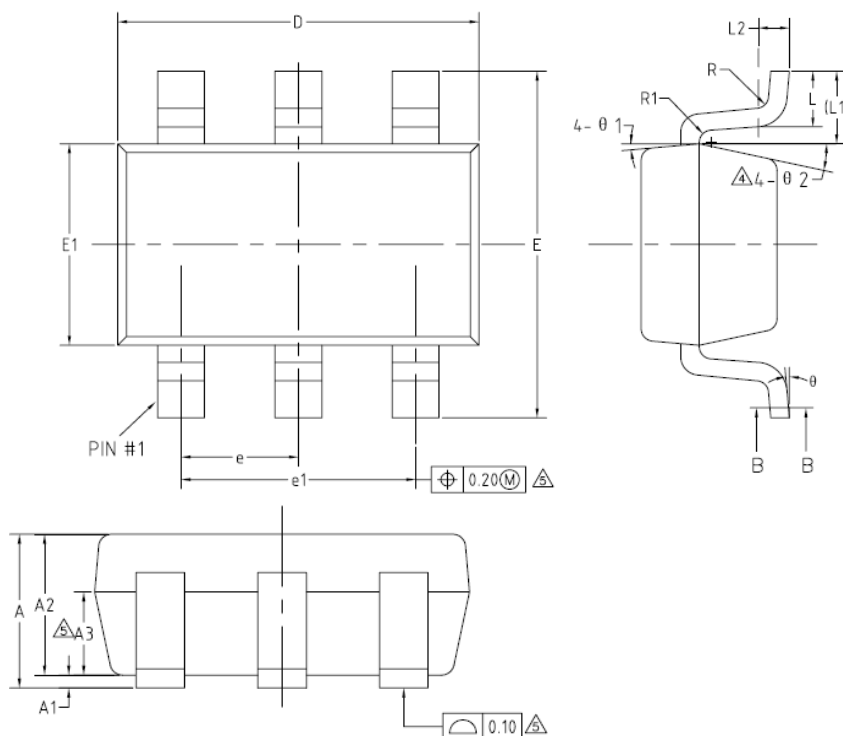
PIN FUNCTIONS

NO.	NAME	TYPE ⁽¹⁾	DESCRIPTION
1	CC1	O/I	Analog input/output that connects to the Type-C receptacle CC1 pin
2	GND	G	Ground
3	SW	O/I	Output Control for VBUS
4	NC	NC	No Connection
5	VIN	P/I	Power supply/Input voltage connected to Power Switch; connect a 1 μ F or greater ceramic capacitor from IN to GND as close to the IC as possible
6	CC2	O/I	Analog input/output that connects to the Type-C receptacle CC2 pin

(1) G = Ground, I = Input, O = Output, P = Power

PACKAGE INFORMATION

SOT23-6



COMMON DIMENSIONS
(UNITS OF MEASURE=MILLIMETER)

SYMBOL	MIN	NOM	MAX
A	—	—	1.25
A1	0	—	0.15
A2	1.00	1.10	1.20
A3	0.60	0.65	0.70
b	0.36	—	0.50
b1	0.36	0.38	0.45
c	0.14	—	0.20
c1	0.14	0.15	0.16
D	2.826	2.926	3.026
E	2.60	2.80	3.00
E1	1.526	1.626	1.726
e	0.90	0.95	1.00
e1	1.80	1.90	2.00
L	0.35	0.45	0.60
L1	0.59REF		
L2	0.25BSC		
R	0.10	—	—
R1	0.10	—	0.20
θ	0°	—	8°
θ 1	3°	5°	7°
θ 2	6°	—	14°