

XC8116A001MR Evaluation Board User Manual

6V, 1A Ultra-Low Power Load Switch IC with Reverse Current Protection

CAUTION

ENGINEERING EVALUATION PURPOSES ONLY

This evaluation board is made for the purpose of the product evaluation.
It is strictly prohibited to use this evaluation board for any other purpose.

Torex Semiconductor does not guarantee that all samples will perform in exactly the same way and we recommend that you always consult our product data sheets for the minimum and maximum specifications.

It is also important that you evaluate all our products carefully before mass

XC8116A001MR Evaluation Board*6V, 1A Ultra-Low Power Load Switch IC with Reverse Current Protection***Evaluation Board Picture****Evaluation Board SPEC**

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNITS
Input Voltage	V_{IN}	1.1	-	6.0	V
Output Current ($T_a=25^{\circ}\text{C}$)	I_{OUT}	-	-	1000	mA
Quiescent Current	I_{Q_EH}	-	1	40	nA
Stand-by Current	I_{STB}	-	5	130	nA

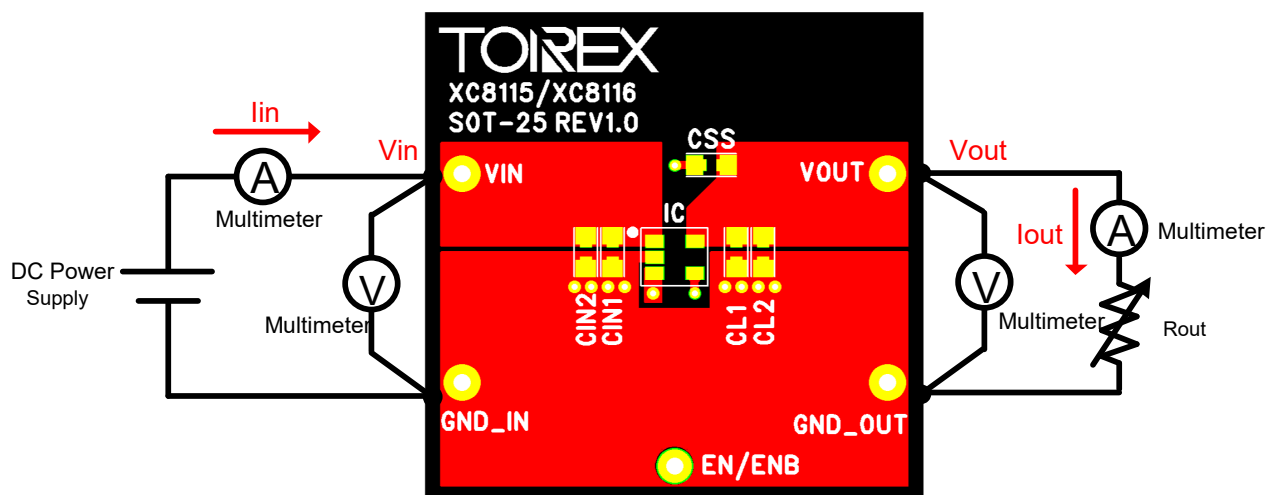
XC8115/XC8116 Series Features

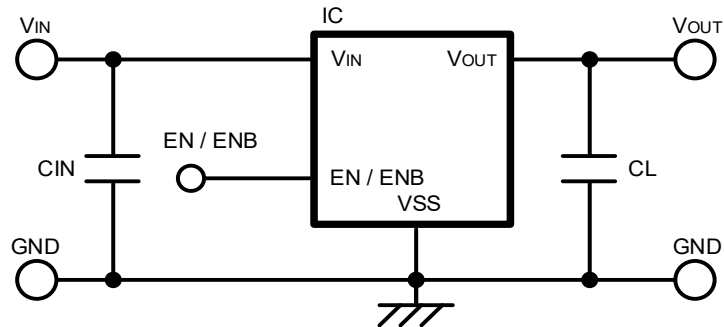
- Input Voltage Range 1.1V ~ 6.0V
- Max Output Current 1000mA
- Ultra-Low Quiescent Current
 - Quiescent Current 0.0 μ A
 - Stand-by Current 0.0 μ A
- Reverse Current Protection at OFF State
- Soft Start (external adjustment)
- Short Protection and Thermal Shutdown Protection

XC8116A001MR Evaluation Board

6V, 1A Ultra-Low Power Load Switch IC with Reverse Current Protection

Quick Start Procedure



XC8116A001MR Evaluation Board*6V, 1A Ultra-Low Power Load Switch IC with Reverse Current Protection***Schematic****BOM****Required Circuit Component**

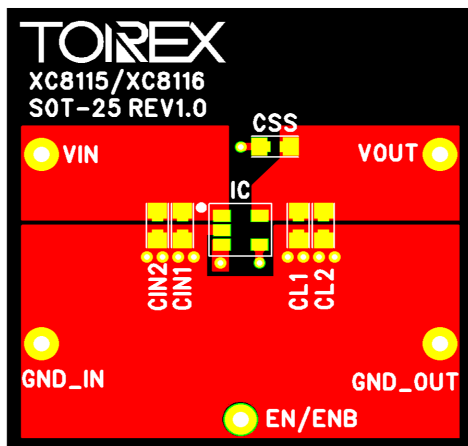
Item	Value	Description	Size [mm]	Part Number	Manufacturer
IC	-	Load switch IC with ideal diode	SOT-25	XC8116A001MR-G	TOREX
CIN1	1 μ F	Ceramic cap., 50V	1608	CGA3E3X5R1H105K	TDK
CIN2	-	-	-	-	-
CL1	1 μ F	Ceramic cap., 50V	1608	CGA3E3X5R1H105K	TDK
CL2	-	-	-	-	-
R1	-	-	-	-	-

XC8116A001MR Evaluation Board

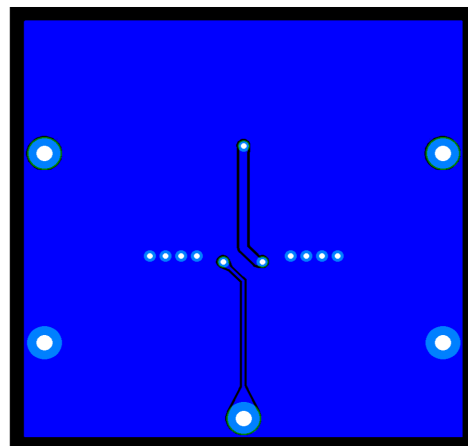
6V, 1A Ultra-Low Power Load Switch IC with Reverse Current Protection

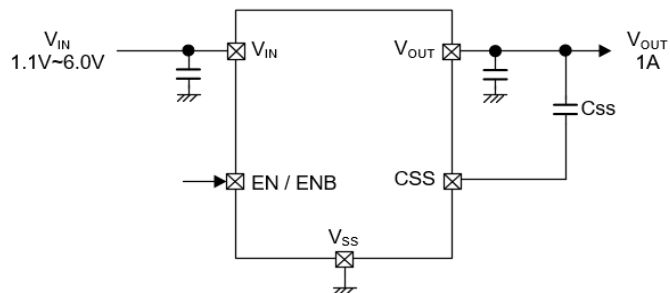
PCB Layout

Layer 1



Layer 2



XC8116A001MR Evaluation Board*6V, 1A Ultra-Low Power Load Switch IC with Reverse Current Protection***【Appendix】 Typical Application Circuit****Load Switch Applications****Power Multiplexer (Selection of Multiple Power Sources/Batteries)**