

XC6194AA05E-EVB-01 Evaluation Board User Manual

1A Output Current Push Button Smart Load Switch

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.

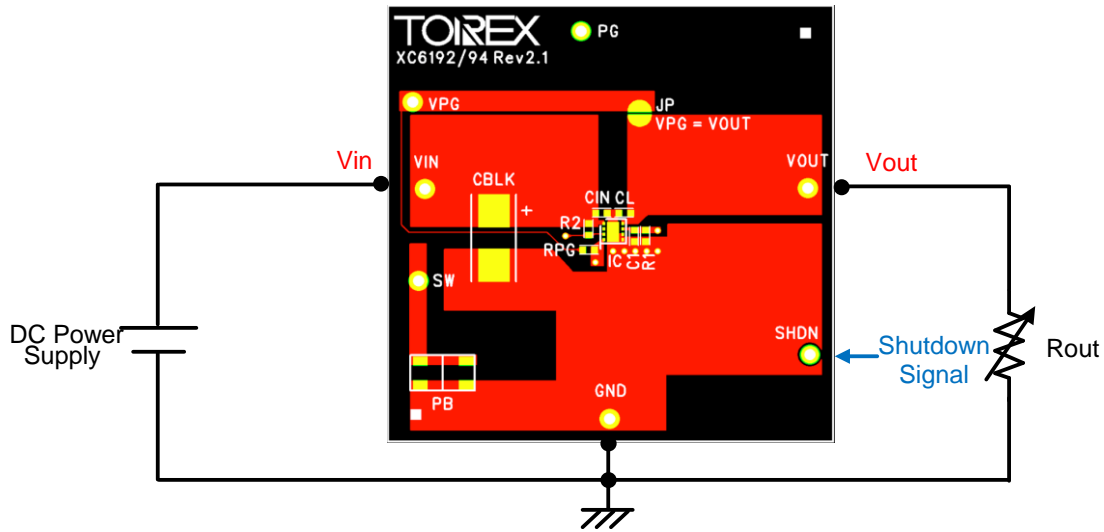
Torex Semiconductor does not guarantee that all samples will perform in exactly the same way and we recommend that you always consult our product data sheets for the minimum and maximum specifications.

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

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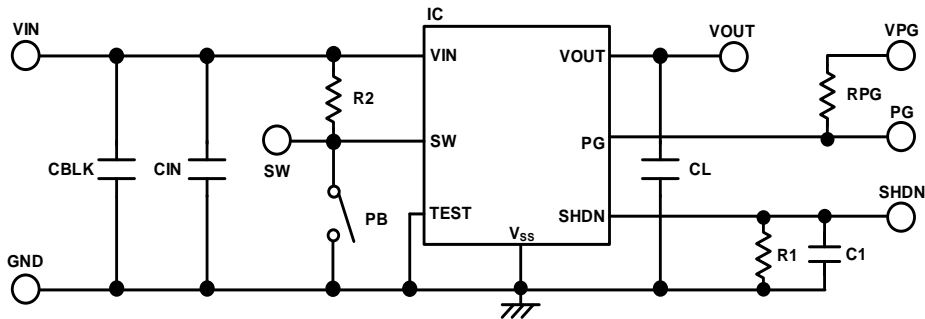
Quick Start Procedure



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Schematic



BOM

Required Circuit Component

Item	Value	Description	Size [mm]	Part Number	Manufacture
IC	-	Push Button Smart Load Switch	USP-8B06	XC6194AA05ER-G	TOREX
CIN	0.1uF	Ceramic cap., 50V	1005	CGA2B3X7R1H104H	Taiyo Yuden
CL	10uF	Ceramic cap., 10V	1005	GRM155R61106ME11D	Taiyo Yuden
R1	200kΩ	Resistor	1005	-	-
R2	200kΩ	Resistor	1005	-	-
RPG	-	-	-	-	-
C1	-	-	-	-	-

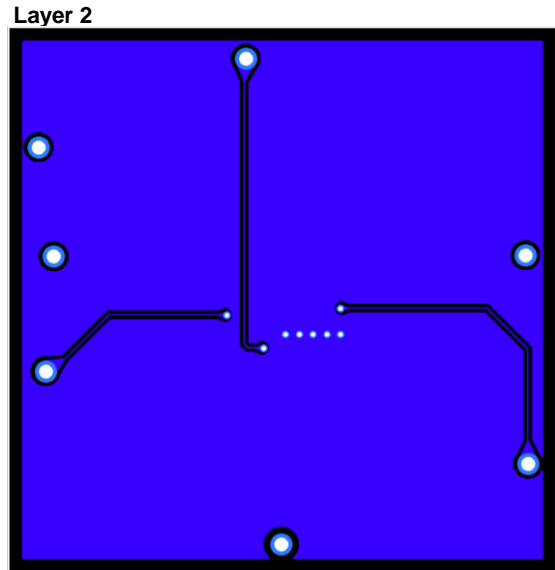
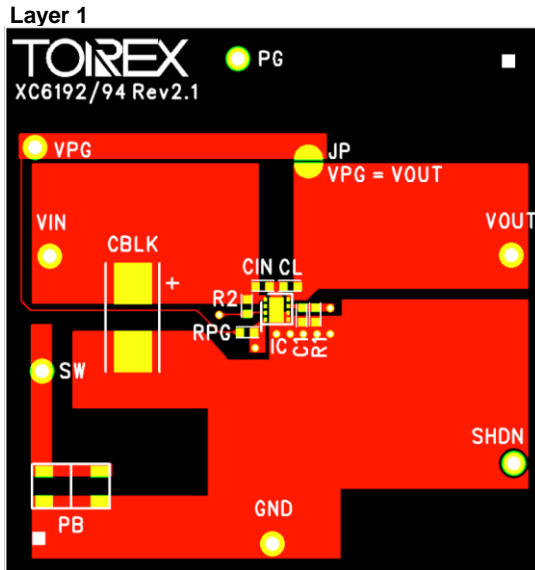
Additional Demo Board Circuit Components

Item	Value	Description	Size [mm]	Part Number	Manufacture
CBLK	10uF	Ceramic cap., 50V/10uF	3225	CGA6P3X7S1H106K	TDK

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PCB Layout

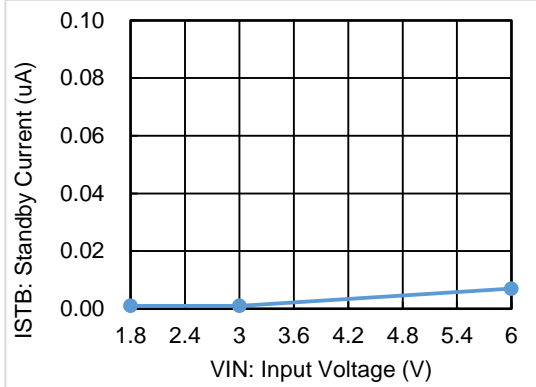


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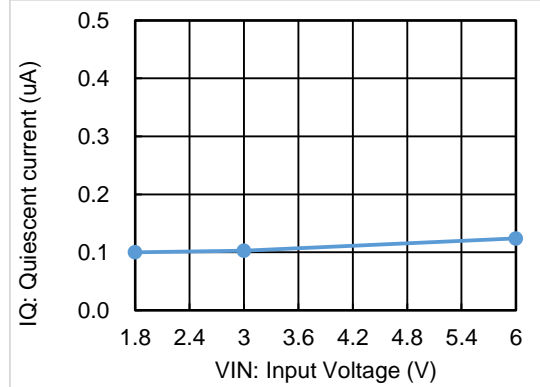
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Test Result

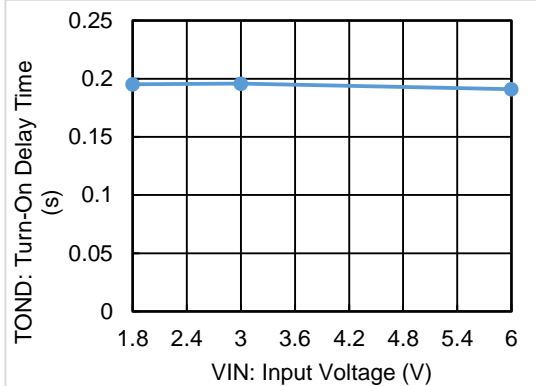
(1) Standby Current Ta=25°C
Turn-Off State, $V_{SW}=V_{IN}$, $V_{SHDN}=0V$



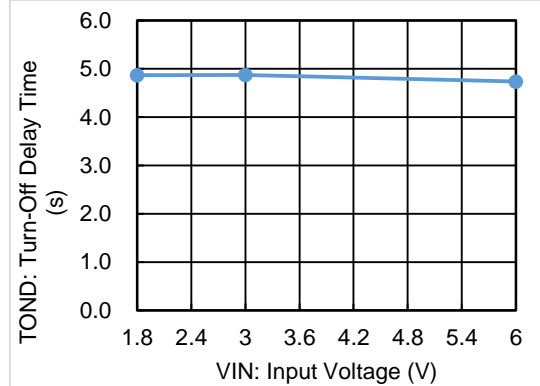
(2) Quiescent current Ta=25°C
Turn-On State, $V_{SW}=V_{IN}$, $V_{SHDN}=0V$



(3) Turn-On Delay Time Ta=25°C
 $V_{SW}=V_{IN} \rightarrow 0V$, $V_{SHDN}=0V$ (During "SW="L" to VOUT="H".)



(4) Turn-Off Delay Time Ta=25°C
 $V_{SW}=V_{IN} \rightarrow 0V$, $V_{SHDN}=0V$ (During "SW="L" to VOUT="L".)



(5) Inrush Current Ta=25°C
 $V_{IN}=6.0V$, $V_{SW}=V_{IN} \rightarrow 0V$, $V_{SHDN}=0V$



(6) Shutdown function Ta=25°C
 $V_{IN}=6.0V$, $V_{SW}=V_{IN}$, $V_{SHDN}=0V \rightarrow 1.2V$

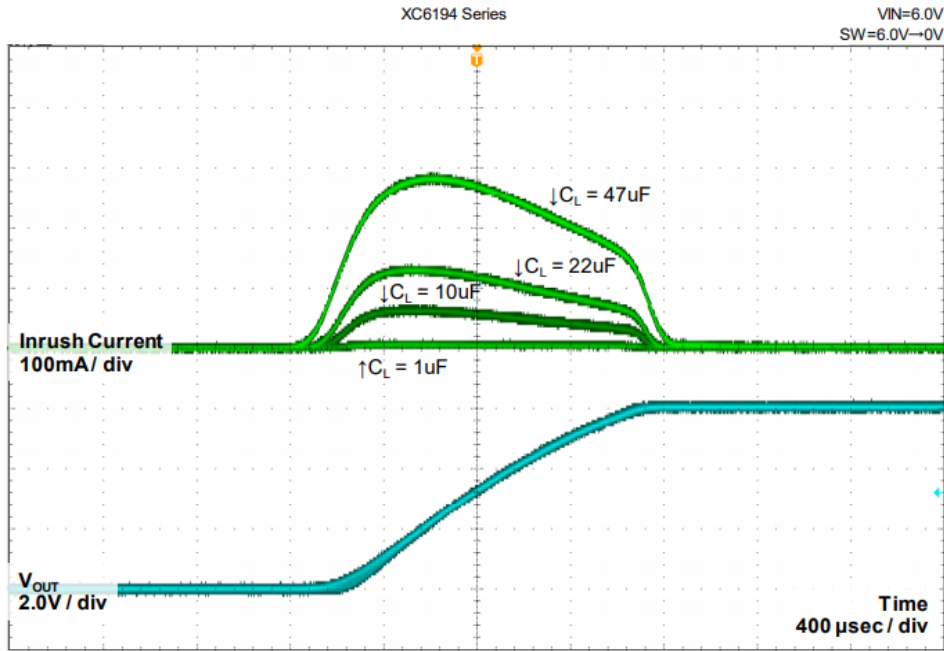


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Test Result

(7) Inrush Current



单击下面可查看定价，库存，交付和生命周期等信息

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