

CYT1000BG single segment LED linear constant current control chip



General Description

CYT1000BG is a linear constant current IC with adjustable output current, high constant-current accuracy, simple application scheme, Cost and Resistance capacitance step-down are comparable, with over-temperature protection function, safer and more reliable.

Electric Characteristics

Unless otherwise stated, $T_A=25^{\circ}\text{C}$.

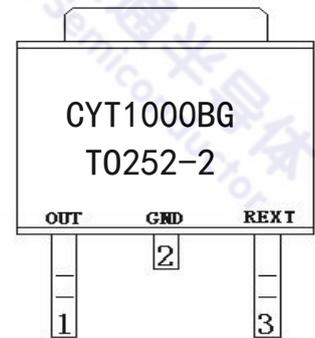
Description	Condition	Min	Typ	Max	Unit
OUT input voltage	$I_{OUT}=30\text{mA}$	6.5	-	-	V
OUT withstand voltage	$I_{OUT}=0\text{mA}$	500	-	-	V
Output current	-	5	-	60	mA
Quiescent current	$V_{OUT}=10\text{V}$, REXT dangling	-	0.08	0.16	mA
REXT port voltage	$V_{OUT}=10\text{V}$	-	0.6	-	V
I_{OUT} error	$I_{OUT}=5\text{mA}\sim 60\text{mA}$	-	± 5	-	%
temperature compensation point T_{SC}	-	-	150	-	$^{\circ}\text{C}$

Absolute Maximum Ratings

Unless otherwise stated, $T_A=25^{\circ}\text{C}$.

Description	Symbol	Range	Unit
OUT port voltage	V_{OUT}	-0.5~500	V
OUT port saturation current	I_{OUT}	100	mA
Operating temperature	T_{OPT}	-40~140	$^{\circ}\text{C}$
Storage temperature range	T_{STG}	-50~150	$^{\circ}\text{C}$
ESD	V_{ESD}	2	kV

Pin Diagram (top view)



Typical Application

