

CYT1010BS single segment LED linear constant current control chip

General Description

CYT1010BS 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, $T_A=25^{\circ}\text{C}$.

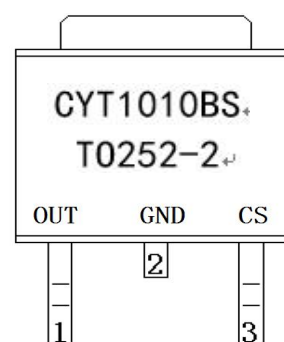
Description	Condition	Min	Typ	Max	Unit
OUT input voltage	$I_{\text{OUT}}=30\text{mA}$	6.5	-	-	V
OUT withstand voltage	$I_{\text{OUT}}=0\text{mA}$	500	-	-	V
Output current	-	5	-	120	mA
Quiescent current	$V_{\text{OUT}}=10\text{V}$, CS dangling	-	0.16	0.25	mA
CS port voltage	$V_{\text{OUT}}=10\text{V}$	-	0.6	-	V
I_{OUT} error	$I_{\text{OUT}}=5\text{mA}\sim 120\text{mA}$	-	± 5	-	%
temperature compensation point T_{SC}	-	-	140	-	$^{\circ}\text{C}$

Absolute Maximum Ratings

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

Description	Symbol	Range	Unit
OUT port voltage	V_{OUT}	$-0.5\sim 500$	V
I_{OUT} Transient maximum saturation current	$I_{\text{OUT-MAX}}$	175	mA
Operating temperature	T_{OPT}	$-40\sim 140$	$^{\circ}\text{C}$
Storage temperature range	T_{STG}	$-50\sim 150$	$^{\circ}\text{C}$
ESD	V_{ESD}	2	kV

Pin Diagram (top view)



Typical Application

