

CYT1000AEG single segment LED linear constant current control chip

General Description

CYT1000AEG 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,  $T_A=25^{\circ}\text{C}$ .

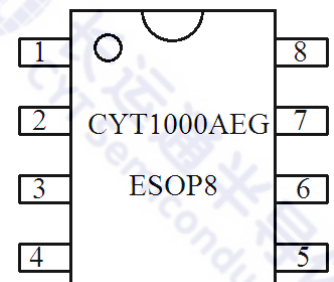
Symbol	Description	Condition	Min.	Typ.	Max.	Unit
$V_{OUT-MIN}$	OUT input voltage	$I_{OUT}=30\text{mA}$	6.5	-	-	V
$V_{OUT}$	OUT port withstand voltage	$I_{OUT}=0\text{mA}$	500	-	-	V
$I_{OUT}$	Output current	-	5	-	60	mA
$I_{DD}$	Quiescent current	$V_{OUT}=10\text{V}$ , REXT hanging	-	0.08	0.16	mA
$V_{REXT}$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

Absolute Maximum Ratings

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

Symbol	Description	Range	Unit
$V_{OUT}$	OUT port voltage	-0.5~500	V
$I_{OUT-MAX}$	$I_{OUT}$ transient saturation current	100	mA
$T_{OPT}$	Operating temperature	-40~140	$^{\circ}\text{C}$
$T_{STG}$	Storage temperature range	-55~150	$^{\circ}\text{C}$
$V_{ESD}$	HBM ESD	2	kV

Pin Diagram(top view)



Typical Application

