

CYT1000DE single segment LED linear constant current control chip



General Description

CYT1000DE 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,  $T_A=25^{\circ}C$ .

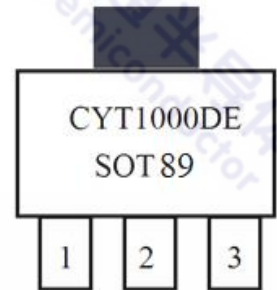
Description	Condition	Min	Typ	Max	Unit
OUT input voltage	$I_{OUT}=30mA$	6.5	-	-	V
OUT withstand voltage	$I_{OUT}=0mA$	500	-	-	V
Output current	-	5	-	60	mA
Quiescent current	$V_{OUT}=10V$ , REXT dangling	-	0.08	0.16	mA
REXT port voltage	$V_{OUT}=10V$	-	0.6	-	V
$I_{OUT}$ error	$I_{OUT}=5mA\sim 60mA$	-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

Absolute Maximum Ratings

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

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

Pin Diagram (top view)



Typical Application

