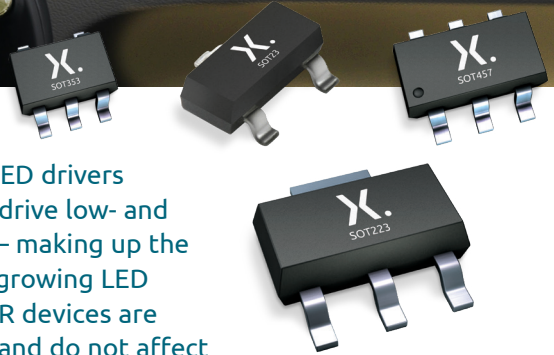


Constant current LED Drivers

Cost-efficient, reliable and easy to use



Nexperia's linear constant current LED drivers are a simple and robust solution to drive low- and medium-power LEDs up to 250 mA – making up the vast majority of applications in the growing LED market. The AEC-Q101 qualified NCR devices are easy-to-use, reliable, cost efficient, and do not affect EMC. Available in four package options.

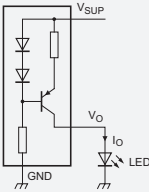

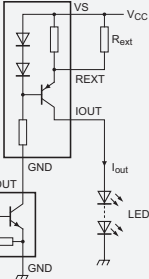


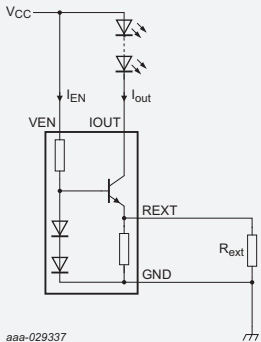


Features

- › High current accuracy
- › Parallel drivers can be used to increase the current capability
- › High power capability (up to 1250 mW) for increased robustness
- › Supply voltage up to 75 V
- › AEC-Q101 qualified
- › $T_j = 150^\circ\text{C}$
- › Space-saving and future-proof
- › Easy to implement
- › Multi-sourcing capable

Applications

- › Constant current source
- › Automotive interior and exterior lighting
 - Door handles
 - Dashboard
 - Number plate light
 - Indicators
 - Rear lights, etc.

Product range

Configuration	Current (mA)	Supply Voltage (V)	Enable	Ptot (mW)	Package	Size (mm)	Type
PNP (High side)  006aaa025	10	18	GND	480	 SOT23	2.9 x 1.3 x 1.0	NCR401T
	20						NCR402T
PNP (High side)  aaa-019594	10 – 65	40	GND	750	 SOT457	2.9 x 1.5 x 1.0	NCR401U
	20 – 65						NCR402U
	50 – 65						NCR405U
	0.015 – 50	75	335	 SOT353	2.0 x 1.25 x 0.95	PSSI2021SAY	
NPN (Low Side)  aaa-029337	10 – 250	16	Vcc	750	 SOT457	2.9 x 1.5 x 1.0	NCR320U
			Logic Level				NCR321U
	10 – 150	40	Vcc	NCR420U			
			Logic Level	NCR421U			
	10 – 250	16	Vcc	1250	 SOT223	6.5 x 3.5 x 1.65	NCR320Z
			Logic Level				NCR321Z
	10 – 150	40	Vcc	NCR420Z			
			Logic Level	NCR421Z			

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