

Trans Darlington NPN 50V 0.5A 16-Pin SO N T/R

Manufacturer: [STMicroelectronics, Inc](#)

Package/Case: SOP16

Product Type: Thyristors

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active



Images are for reference only

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General Description

The ULQ2001, ULQ2003 and ULQ2004 are high voltage, high current Darlington arrays each containing seven open collector Darlington pairs with common emitters. Each channel rated at 500 mA and can withstand peak currents of 600 mA. Suppression diodes are included for inductive load driving and the inputs are pinned opposite the outputs to simplify board layout. The versions interface to all common logic families. These versatile devices are useful for driving a wide range of loads including solenoids, relays DC motors, LED displays filament lamps, thermal print-heads and high power buffers. The ULQ2001A/2003A and 2004A are supplied in 16 pin plastic DIP packages with a copper lead-frame to reduce thermal resistance. They are available also in small outline package (SO16) as ULQ2003D1/2004D1. The ULQ2003 is available as Automotive Grade in SO16 package. The commercial part numbers is shown in the order codes. This device is qualified according to the specification AEC-Q100 of the Automotive market, in the temperature range -40 °C to 125 °C and the statistical tests PAT, SYL, SBL are performed.

Key Features

Seven Darlington per package

Extended temperature range: -40 to 105 °C

Output current 500 mA per driver (600 mA peak)

Output voltage 50 V

Automotive Grade product in SO16 package

Integrated suppression diodes for inductive loads

Outputs can be paralleled for higher current

TTL/CMOS/PMOS/DTL compatible inputs

Inputs pinned opposite outputs to simplify layout

Recommended For You

BUL38D

STMicroelectronics, Inc
TO-220

BUL381D

STMicroelectronics, Inc
TO-220

ULN2075B

STMicroelectronics, Inc
DIP16

ULN2074B

STMicroelectronics, Inc
DIP

ULN2067B

STMicroelectronics, Inc
DIP16

ULQ2003D1013TRY

STMicroelectronics, Inc
SOP16

ULN2065B

STMicroelectronics, Inc
DIP16

ULN2001A

STMicroelectronics, Inc
DIP16

ULN2066B

STMicroelectronics, Inc
DIP16

ULN2001D1013TR

STMicroelectronics, Inc
SOP-16

ULN2002A

STMicroelectronics, Inc
DIP-16

ULN2002D1013TR

STMicroelectronics, Inc
SOP-16

ULQ2004A

STMicroelectronics, Inc
DIP-16

ULN2004D1013TR

STMicroelectronics, Inc
SOP

ULQ2003A

STMicroelectronics, Inc
DIP16