

40 V 1.1 mΩ logic level MOSFET

Manufacturers	<a href="#">NXP Semiconductor</a>
Package/Case	N-channel
Product Type	Transistors
RoHS	
Lifecycle	



Images are for reference only

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## General Description

PSMN1R0-40YLD is a specific product code for a Power MOSFET manufactured by NXP Semiconductors. Here are some of its features:

### Features

It is a N-channel MOSFET with a maximum drain-source voltage of 40V and a maximum continuous drain current of 120A.

It has a low on-resistance of 1.1mΩ, which means it can handle high currents with low losses.

It is designed for use in switching applications where high efficiency and low power dissipation are important.

### Application

**DC-DC converters:** The MOSFET can be used as a switching element in step-up or step-down converters to efficiently regulate voltage.

**Motor control:** The MOSFET can be used to control the speed and direction of DC motors, which are used in a variety of applications such as robotics and industrial machinery.

**Power supplies:** The MOSFET can be used in switch-mode power supplies to efficiently convert AC voltage to DC voltage.



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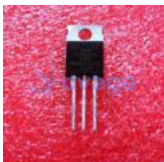
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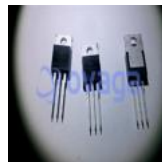
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