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# BUK9M5R0-40H

N-channel 40 V, 5.0 mΩ logic level MOSFET in LFPAK33

Automotive qualified logic level N-channel MOSFET in an LFPAK33 package using Trench 9 TrenchMOS technology. This product has been designed and qualified to AEC-Q101 for use in high performance automotive applications.

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## Features

- Fully automotive qualified to AEC-Q101 at 175 °C
- Trench 9 superjunction technology:
  - Low power losses, high power density

## Target applications

- 12 V automotive systems
- Powertrain, chassis, body and infotainment applications
- Medium/Low power motor drive

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## Parametrics

Type number	Package version	Package name	Product status	Channel type	Number of transistors	V <sub>DS</sub> [max] (V)	R <sub>DSon</sub> [max] @ V <sub>GS</sub> = 10 V (mΩ)	R <sub>DSon</sub> [max] @ V <sub>GS</sub> = 4.5 V (mΩ)	T <sub>j</sub> [max] (°C)	I <sub>b</sub> [max] (A)	Q <sub>GD</sub> [typ] (nC)	Q <sub>G(tot)</sub> [typ] @ V <sub>GS</sub> = 4.5 V (nC)
BUK9M5R0-40H	SOT1210	LFPAK33	Qualification	N	1	40	5	6.4	175	85	2.9	13

## Package

Type number	Orderable part number, (Ordering code (12NC))	Status	Marking	Package	Outline version	Reflow-/Wave soldering	Packing
BUK9M5R0-40H	BUK9M5R0-40HX (9346 607 93115)	Samples available / Development	95H040	 LFPAK33 (SOT1210)	SOT1210		Reel 7" Q1/T1

## Quality, reliability & chemical content

Type number	Orderable part number	Chemical content	RoHS / RHF	MSL	MSL leadfree
BUK9M5R0-40H	BUK9M5R0-40HX	<a href="#">BUK9M5R0-40H</a>	 H	1	1

[Quality and reliability disclaimer](#)

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