



BUK7M4R3-40H

N-channel 40 V, 4.3 mΩ standard level MOSFET in LFPAK33

Automotive qualified standard 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
- LFPAK copper clip package technology:
 - High robustness and reliability
 - Gull wing leads for high manufacturability and AOI
- Repetitive avalanche rated

Target applications


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

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Parametrics

Type number	Package version	Package name	Product status	Channel type	Number of transistors	V _{DS} [max] (V)	R _{DS(on)} [max] @ V _{GS} = 10 V (mΩ)	T _J [max] (°C)	I _D [max] (A)	Q _{GD} [typ] (nC)	Q _{G(tot)} [typ] @ V _{GS} = 10 V (nC)	P _{tot} [max] (W)	Q _r [typ] (nC)	V _{GSth} [typ] (V)	Automotive qualified
BUK7M4R3-40H	SOT1210	LFPAK33	Qualification	N	1	40	4.3	175	95	5	24	90	20	3	Y

Package

Type number	Orderable part number, (Ordering code (12NC))	Status	Marking	Package	Outline version	Reflow-/Wave soldering	Packing
BUK7M4R3-40H	BUK7M4R3-40HX (9346 607 82115)	Samples available / Development	74H340	 LFPAK33 (SOT1210)	SOT1210		Reel 7" Q1/T1

Quality, reliability & chemical content

Type number	Orderable part number	Chemical content	RoHS / RHF	MSL	MSL leadfree
BUK7M4R3-40H	BUK7M4R3-40HX	BUK7M4R3-40H		1	1

[Quality and reliability disclaimer](#)

Efficiency wins.



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