Product Overview

EFC4C002NL: Dual N-Channel Power MOSFET for 3-Cells Lithium-ion Battery Protection, 30 V, 30 A, 2.6 mΩ

For complete documentation, see the data sheet.

This N-Channel Power MOSFET is produced using ON Semiconductor's trench technology, which is specifically designed to minimize gate charge and ultra low on resistance. This device is suitable for applications of DRONE or NOTEBOOK PC.

Features

- Ultra Low On-Resistance
- Low Gate Charge
- RoHS compliance
- High Speed Switching
- Common-Drain type

Benefits

- Improves efficiency by reducing conduction losses
- Ease of drive, faster turn-on
- Environment friendliness
- Reduces dynamic power losses

Applications

- 3-Cells Lithium-ion Battery Charging and Discharging Switch

End Products

- Drone
- Notebook PC

Part Electrical Specifications

Product	Pricing ($/Unit)	Compliance	Status	Channel Polarity	Configuration	$V_{(BR)DSS}$ Min (V)	V_{GS} Max (V)	$V_{GS(th)}$ Max (V)	I_D Max (A)	P_D Max (W)	$R_{DS(on)}$ Max @ V_{GS} = 2.5 V (mΩ)	$R_{DS(on)}$ Max @ V_{GS} = 4.5 V (mΩ)	$R_{DS(on)}$ Max @ V_{GS} = 10 V (mΩ)	Q_g Typ @ V_{GS} = 4.5 V (nC)	Q_g Typ @ V_{GS} = 10 V (nC)	C_{iss} Typ (pF)	Package Type
EFC4C002NLTDG	0.8	Pb-free Halide free non AEC-Q and PPAP	Active	N-Channel	Dual	30	20	2.2	30	2.6	-	Q1= Q2=5.1	Q1= Q2=2.6	21.7	45	6200	WLCSP-8

For more information please contact your local sales support at www.onsemi.com.

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