

FDMA905P

Single P-Channel PowerTrench[®] MOSFET -12V, -10A, 16mΩ

Product Overview

For complete documentation, see the data sheet.

This device is designed specifically for battery charge or load switching in cellular handset and other ultraportable applications. It features a MOSFET with low on-state resistance. The MicroFET 2X2 package offers exceptional thermal performance for its physical size and is well suited to linear mode applications.

Features

- Max $r_{DS(on)}$ = 16 mΩ at $V_{GS} = -4.5$ V, $I_D = -10$ A
- Max $r_{DS(on)}$ = 21 mΩ at $V_{GS} = -2.5$ V, $I_D = -8.9$ A
- Max $r_{DS(on)}$ = 82 mΩ at $V_{GS} = -1.8$ V, $I_D = -4.5$ A
- Low profile - 0.8 mm maximum - in the new package MicroFET 2X2 mm
- Free from halogenated compounds and antimony oxides
- RoHS Compliant

Applications

- Mobile Handsets

Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Channel Polarity	Configuration	$V_{DS(BR)}$ 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
FDMA905P	0.3695		Active	P-Channel	Single	-12	8	-1	-10	2.4	21	16	-	21	21	2559	WDFN-6