

Product Overview

FDS8449_F085: N-Channel PowerTrench® MOSFET 40V, 7.6A, 29mΩ

For complete documentation, see the data sheet.

These N-Channel MOSFETs are produced using an advanced PowerTrench process that has been especially tailored to minimize on-state resistance and yet maintain superior switching performance.

Features

- Typical $R_{DS(on)}$ = 21 mΩ @ $V_{GS} = 10\text{ V}$, $I_D = 7.6\text{ A}$
- Typical $R_{DS(on)}$ = 26 mΩ @ $V_{GS} = 4.5\text{ V}$, $I_D = 6.8\text{ A}$
- Typical $Q_g(TOT)$ = 7.7 nC at $V_{GS} = 5\text{ V}$, $I_D = 7.6\text{ A}$
- RoHS compliant
- Qualified to AEC Q101

Applications

- Infotainment
- Portable Navigation
- Other
- Power Train
- Safety and Control

Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Channel Polarity	Configuration	$V_{DS(s)}^{(BR)}$ Min (V)	V_{GS} Max (V)	$V_{GS(th)}$ Max (V)	I_D Max (A)	P_D Max (W)	$R_{DS(on)}$ Max @ $V_{GS} = 2.5\text{ V}$ (mΩ)	$R_{DS(on)}$ Max @ $V_{GS} = 4.5\text{ V}$ (mΩ)	$R_{DS(on)}$ Max @ $V_{GS} = 10\text{ V}$ (mΩ)	Q_g Typ @ $V_{GS} = 4.5\text{ V}$ (nC)	Q_g Typ @ $V_{GS} = 10\text{ V}$ (nC)	C_{iss} Typ (pF)	Package Type
FDS8449-F085		AEC Qualified PPAP Capable Pb-free Halide free	Active	N-Channel		40	±20	3	7.6	5	-	36	29	15	7.7	760	SOIC-8

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

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