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Infineon's answer to resonant high power topologies

The 600V CoolMOS™ CFD7 is Infineon's latest high-voltage superjunction MOSFET technology with integrated fast body diode, completing the CoolMOS™ 7 series. CoolMOS™ CFD7 comes with reduced gate charge (Qg), improved turn-off behavior and a reverse-recovery charge (Q_{rr}) of up to 69% lower compared to the competition, as well as the lowest reverse recovery time (t_{rr}) in the market.

(Infineon + @CYPRESS Strengthening the link between the real and the digital world

Ultra-fast body diode

Summary of Features

- Best-in-class reverse-recovery charge (Q_{rr}) · Improved reverse diode dv/dt and dif/dt
- ruggedness Lowest FOM R_{DS(on)} x Q_g and E_{oss}
- Best-in-class R_{DS(on)}/package combinations
- Potential Applications

Server, Telecom, EV-charging, SMPS, PC power

· Best-in-class hard commutation ruggedness

Benefits

- Highest reliability for resonant topologies
- · Highest efficiency with outstanding ease-of-
- use/performance trade-off · Enabling increased power density solutions

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Gate Driver Finder

IPT60R145CFD7



Parametrics

Parametrics

I _D (@25°C) max	19.0 A
I _D max	19.0 A
I _{Dpuls} max	51.0 A
Mounting	SMT
Operating Temperature min max	-55.0 °C 150.0 °C
P _{tot} max	116.0 W
Package	TOLL (HSOF-8)
Pin Count	8.0 Pins
Polarity	N
Q _G (typ @10V)	28.0 nC
Q _G	28.0 nC
R _{DS (on)} (@10V) max	145.0 mΩ
R _{DS (on)} max	145.0 mΩ
V _{DS} max	600.0 V
V _{GS(th)} min max	4.0 V 3.5 V 4.5 V

+ Data Sheets

Documents

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+ Product Brief

+ Product Qualification Report

+ Product Brochure

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+ Product Selection Guide

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IPT60R145CFD7XTMA1

active and preferred

Product Status

OPN

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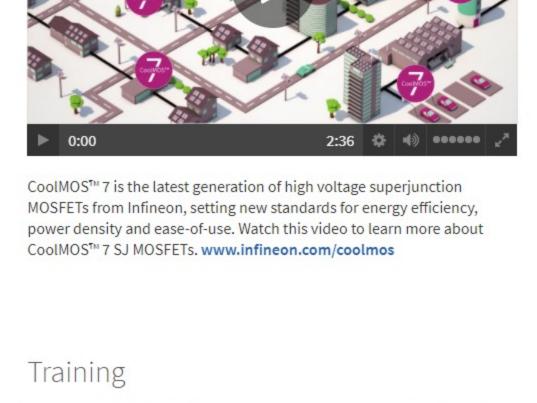
Infineon Package name	PG-HSOF-8
Standard Package name	
Order online	Suy online
Completely lead free	yes
Halogen free	yes
RoHS compliant	yes
Packing Size	2000
Packing Type	TAPE & REEL
Moisture Level	1
Moisture Packing	NON DRY
Tools & Software	

Simulation

+ Simulation Models

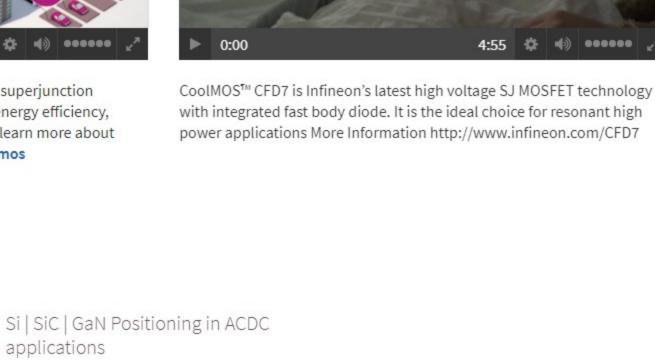
+ Tool Brief

Videos CoolMOS[™] 7 SJ MOSFETs – in the heart of power



600 V CoolMOS[™] CFD7 SJ MOSFET – Infineon's answer to

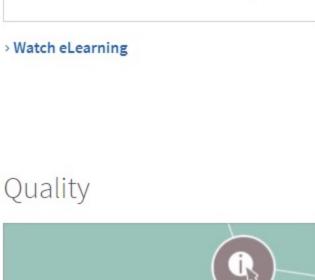
resonant topologies



MOSFET

600 V CoolMOS™ CFD7

600V CoolMOS[™] CFD7 superjunction



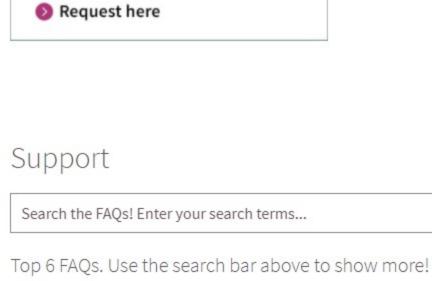
Infineon offers trusted expertise in all 3 main power semiconductor technologies. Check out how to position them in ACDC applications!

applications

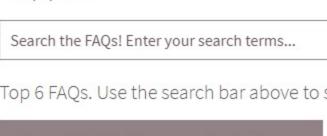
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the Application Note....

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