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ICE5QR2270AZ

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Description:

Infineon latest 5th generation quasi-resonant CoolSET[™] offers high performance with the integration of latest P7 Generation of 700V and 800V CoolMOS[™] in DIP-7 package.

Summary of Features:

- Novel quasi-resonant switching scheme
- Rapid and adjustable start-up with cascode configuration
- 2 level selectable active burst mode level
- Built-in digital soft-start
- Cycle by cycle peak current limitation
- Digital frequency reduction with decreasing load for higher efficiency

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- OLP, output short, output over-voltage, OTP with hysteresis and VCC over/under voltage protection
- Auto-restart for all protection features

Benefits:

- High efficiency with latest CoolMOS[™] P7 family and quasi-resonant switching scheme
- Auto-restart recovery scheme to minimize interruption to system operation
- Extensive protection coverage to increase system robustness
- Rapid start-up performance with cascode configuration

Target Applications:

- Offline aux SMPS for server, PC power, aircon, refrigerator and audio
- Offline main SMPS for adapter, set-top-box, water purifier, TV, industrial SMPS and POE

Add To Cart

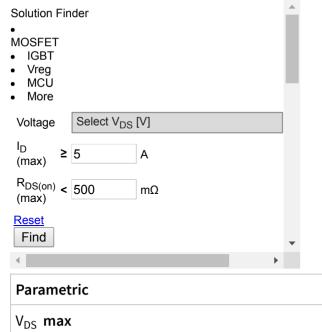
ICE5QR2270AZ Data Sheet (3 MB, EN)



7/30/2017

ICE5QR2270AZ - Infineon Technologies





Parametric	ICE5QR2270AZ
V _{DS} max	700.0V
R _{DS (on)} max	2.33Ω
P _{out} max	22.0W
V _{CC} min max	10.5V 24.0V

https://www.infineon.com/cms/en/product/power/ac-dc-power-conversion/ac-dc-integrated-power-stage-coolset/ac-dc-quasi-resonant-coolset/ICE5QR2270AZ/productType.html?productType=5546d4625... 4/7

Parametric	ICE5QR2270AZ
Тороlоду	Flyback
Operating Temperature min max	-40.0°C 129.0°C
t _f	30.0ns
I _{CC}	0.9mA
Frequency Range	Variable
ESD Protection max	2.0kV
Mounting	ТНТ
Green Product	Yes
Package	PG-DIP-7
t _r	30.0ns
Switching Frequency	Variable

Data Sheet

Title	Size	Date	Version
Infineon-ICE5QRxxxxAx-DS-v01_20-EN > EN	3 MB	04 Jul 2017	02_00

Application Notes

Title	Size	Date	Version
Demoboard DEMO_5QR2270AZ_24W1 with ICE5QR2270AZ > EN	3.4 MB	08 Jun 2017	01_00

Product Brief

Title		Date	Version
Product Brief Quasi Resonant CoolSET [™] Generation 5 PWM controller → EN] 121 KB	13 Mar 2017	01_00

https://www.infineon.com/cms/en/product/power/ac-dc-power-conversion/ac-dc-integrated-power-stage-coolset/ac-dc-quasi-resonant-coolset/ICE5QR2270AZ/productType.html?productType=5546d4625... 5/7

Additional Technical Information

Title	Size	Date	Version
Design Guide Quasi Resonant CoolSET™ Generation 5 NEW → EN	2.2 MB	05 Apr 2017	01_00

Additional Product Information

Title	Size	Date	Version
Market News OptiMOS [™] Linear FET → DE	124 KB	25 Jul 2017	01_00

Application Brochure

Title	Size	Date	Version
Application Brochure Wireless Charging for Consumer NEW > EN	575 KB	09 May 2017	01_00

Product Selection Guide

Title	Size	Date	Version
Power Management Selection Guide 2017 > EN > JA	22.2 MB	21 Feb 2017	00_00

Sales Product Name	ICE5QR2270AZ
OPN	ICE5QR2270AZXKLA1
Product Status	active and preferred
Order online	Add To Cart
Package Name	PG-DIP-7
Completely lead free	yes
Halogen free	yes
RoHS compliant	yes

https://www.infineon.com/cms/en/product/power/ac-dc-power-conversion/ac-dc-integrated-power-stage-coolset/ac-dc-quasi-resonant-coolset/ICE5QR2270AZ/productType.html?productType=5546d4625... 6/7

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Sales Product Name	ICE5QR2270AZ
Packing Size	2000
Packing Type	TUBE
Moisture Level	NA

Evaluation Boards

Board 💌	Family •	Description	Status 💌
> DEMO_5QR2270AZ_24W1	Power Controller (PWM, PFC)	24W Dual Output +12V and +5V SMPS Quasi-Resonant demo board • ICE5QR2270AZ	active and preferred

Find an answer to your question

Please state your question(with at least 3 words)

FAQ

1.

Infineon welcomes your comments and questions.

If you have any questions concerning our products, please fill out the following form. Your inquiry will be sent to the appropriate specialist who will be in touch with you as soon as possible.

You will receive a confirmation E-mail to validate your address in our system. Any attached file to the reply which will help to support your inquiry is highly appreciated.

First Name*

https://www.infineon.com/cms/en/product/power/ac-dc-power-conversion/ac-dc-integrated-power-stage-coolset/ac-dc-quasi-resonant-coolset/ICE5QR2270AZ/productType.html?productType=5546d4625... 7/7
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