Product Brief

HyperFast Rectifiers ideal for use with Super Junction MOSFETs

600V | 15A, 30A

The CRU24715-600 and CRU24730-600 are HyperFast recovery diodes / rectifiers in the TO-247 case. They are designed for use with Central's latest Super Junction MOSFETs, including the CDMSJ22029-650 and others. These rectifiers are ideal for high-current switching applications and feature very high recovery speed, with a t_{rr} of 35ns or less.

Features

- · High voltage capability
- Dual diode for high current capability
- Low t_{rr} (as low as 30ns)
- Backside pad for thermal efficiency

Applications

Flyback diode for:

- Power Factor Correction (PFC)
- Continuous Conduction Mode (CCM)
- Switch Mode Power Supplies (SMPS)

Benefits

Energy efficiency

- Industry standard package
- Low switching losses

	Maximum Ratings (T _A = 25°C unless otherwise noted)			Electrical Characteristics: (T _A =25°C unless otherwise noted)					
Central Item No.	VRRM (V) MAX	TJ, T _{Stg} (°C) MAX	IFSM (A) MAX	VF (V) MAX	@ IF (A)	I _R (μΑ) ΜΑΧ	@ V _R (V)	lo(A)	Package Type
CRU24715-600	600	-55 to +150	140	2.3	15	100	600	15A per leg, 30A total	TO-247
CRU24730-600	600	-55 to +150	175	2.5	30	100	600	30A per leg, 60A total	TO-247





CRU24730-600

SPICE Models and other technical resources:

Visit www.centralsemi.com to download SPICE models for these devices.

RoHS and REACH compliance declarations

Visit the Quality section of Central's website to access.



TO-247

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DIMENSIONS									
	INC	HES	MILLIMETERS						
SYMBOL	MIN	MAX	MIN	MAX					
А	0.184	0.211	4.68	5.36					
В	0.087	0.110	2.20	2.80					
С	0.019	0.028	0.48	0.70					
D	0.606	0.638	15.38	16.20					
E (DIA)	0.128	0.144	3.25	3.65					
F	0.583	0.607	14.81	15.42					
G	0.072	0.097	1.82	2.46					
Н	0.115	0.127	2.92	3.23					
J	0.035	0.060	0.89	1.53					
Κ	0.207	0.223	5.26	5.66					
L	0.812	0.881	20.63	22.38					
М	0.145	0.177	3.68	4.50					
Ν	0.728	0.846	18.50	21.50					
TO-247 (REV: R3)									

Dual Cathode Configuration • Dual diodes (common cathode) • Using diodes in parallel with double rating • 2x 15A = 30A • 2x 30A = 60A 2 Lead Code 3 Leg 1 D1 anode Common cathode Leg 2 Leg 3 D2 anode Pad Common cathode



TO-247 Antistatic Sleeve

Bulk:

White corrugated box with static shielded bags **Bulk packing quantity: 100**

Sleeve:

Antistatic coated plastic sleeve (surface resistivity of >10⁹ and <10¹³ ohms per square) **Sleeve packing quantity: 30**

Package Options

Various DFN-style packages possible

For more information on Central's products and potential solutions: Call us at: 1.631.435.1110 Or view online: www.centralsemi.com/featured-products

