Product Brief

RoHS & REACH compliant

Hyperfast Rectifiers ideal for Power Factor Correction (PFC)

400V & 600V 1A, 5A, 8A, 10A



Central Semiconductor's **Hyperfast Rectifiers** are designed specifically for extremely fast switching applications, such as PFC, where total conduction losses must be minimized and at the same time, power density maximized. All devices offer industry leading switching performance and make use of industry standard packages and mounting pad layouts for ease of manufacturing and adaptability for existing designs.

Features

- High current capability
- High surge capacity
- Hyperfast recovery time (< 25ns)
- High reverse voltage capability
- · High power density

Applications

- Power Factor Correction (PFC)
- Motor control
- DC-DC output rectification
- Alternative energy inverters

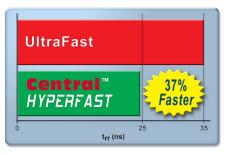
Benefits

- · Energy efficiency
- Industry standard packages & footprints
- · Low switching losses

		Maximum Ratings (T _A = 25°C unless otherwise noted)				Electrical Characteristics: (T _A = 25°C unless otherwise noted)					
	Central Item No.	V _{RRM} (V) MAX	IO (A) MAX	TJ, T _{stg} (°C) MAX	IFSM (A) MAX	VF (V) MAX	@ IF (A)	^I R (μΑ) ΜΑΧ	@ V _R (V)	t _{rr} (ns) TYP	Package Type
	CMR1H-04MFL	400	1.0 (T _L =120°C)	-65 to +150	30	1.25	1.0	1.0	400	20	SMAFL
	CMR5H-06	600	5.0 (T _L =75°C)	-65 to +175	100	1.7	5.0	1.0	600	20	SMC
	CHD8-06	600	8.0 (T _L =100°C)	-65 to +175	70	2.2	8.0	10	600	22	DPAK
	CTLHR10-06	600	10 (T _L =90°C)	-65 to +175	150	1.7	10	10	600	22	TLM364

Superior switching speed for optimal performance

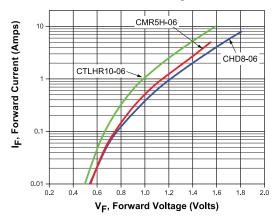
Rectifiers with extremely fast reverse recovery speeds are essential in reducing switching losses and improving performance.



SPICE Models and other technical resources:

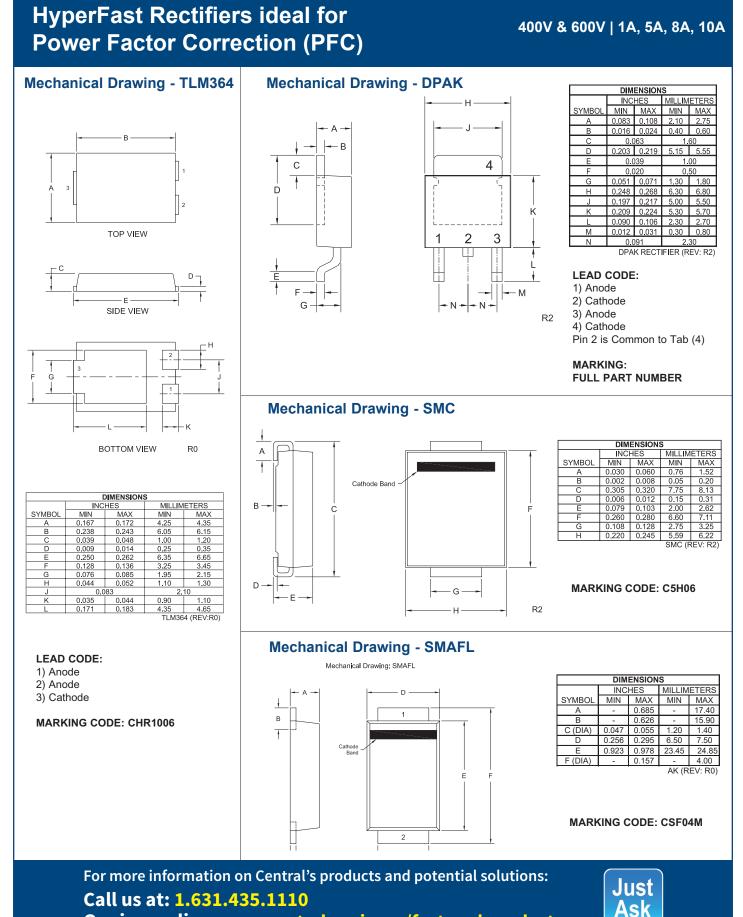
Visit www.centralsemi.com to download SPICE models for these devices.

Forward Voltage



RoHS and REACH compliance declarations

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



Or view online: www.centralsemi.com/featured-products

PB HYPERFAST RECTIFIERS (R0 0420)