

Excellent Integrated System Limited

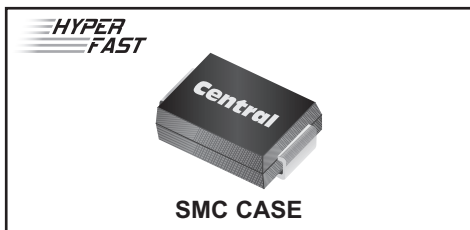
Stocking Distributor

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[Central Semiconductor Corp](#)
[CMR5H-06 TR13](#)

For any questions, you can email us directly:
sales@integrated-circuit.com

CMR5H-06
SURFACE MOUNT SILICON
HYPERFAST
RECOVERY RECTIFIER
5.0 AMP, 600 VOLT



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMR5H-06 is a HyperFast power rectifier manufactured in the epoxy molded SMC case. The extremely fast reverse recovery characteristics make this device an ideal choice for PFC and other fast switching applications.

MARKING CODE: C5H06

APPLICATIONS:

- Power factor correction
- Motor control
- DC-DC output rectification
- Freewheeling diode

FEATURES:

- HyperFast recovery time (20ns TYP)
- High surge capability
- Low leakage current

MAXIMUM RATINGS: (T_A=25°C unless otherwise noted)

	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V _{RRM}	600	V
DC Blocking Voltage	V _R	600	V
RMS Reverse Voltage	V _{R(RMS)}	420	V
Average Forward Current (T _L =75°C)	I _O	5.0	A
Peak Forward Surge Current, tp=8.3ms	I _{FSM}	100	A
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +175	°C
Thermal Resistance	θ _{JL}	10	°C/W

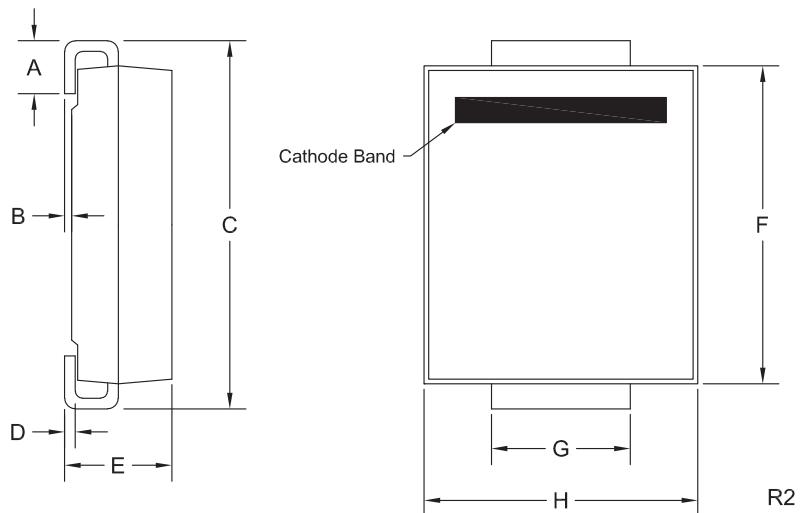
ELECTRICAL CHARACTERISTICS: (T_A=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I _R	V _R =600V		0.2	1.0	μA
I _R	V _R =600V, T _A =150°C			500	μA
BV _R	I _R =100μA	600			V
V _F	I _F =5.0A		1.55	1.70	V
C _J	V _R =4.0V, f=1.0MHz		17		pF
t _{rr}	I _F =5.0A, V _R =400V, di/dt=200A/μs		20	22	ns

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SMC CASE - MECHANICAL OUTLINE



MARKING CODE: C5H06

DIMENSIONS				
SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.030	0.060	0.76	1.52
B	0.002	0.008	0.05	0.20
C	0.305	0.320	7.75	8.13
D	0.006	0.012	0.15	0.31
E	0.079	0.103	2.00	2.62
F	0.260	0.280	6.60	7.11
G	0.108	0.128	2.75	3.25
H	0.220	0.245	5.59	6.22

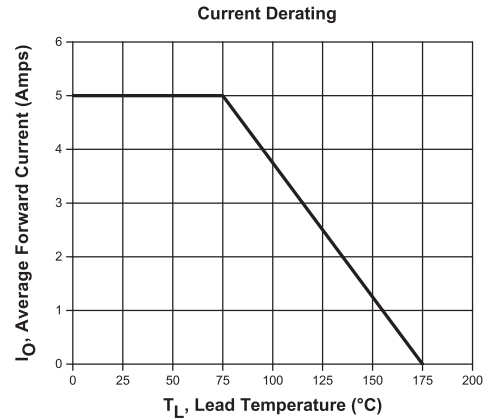
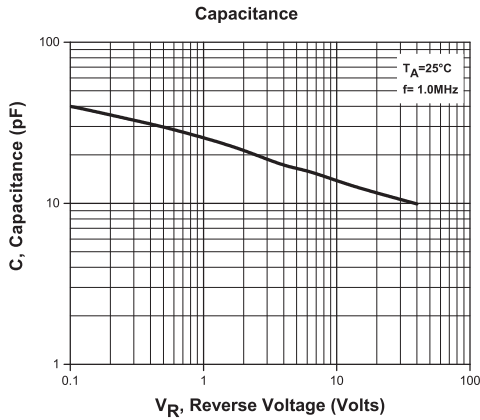
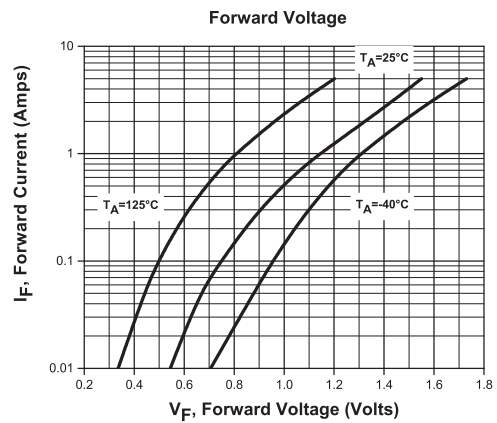
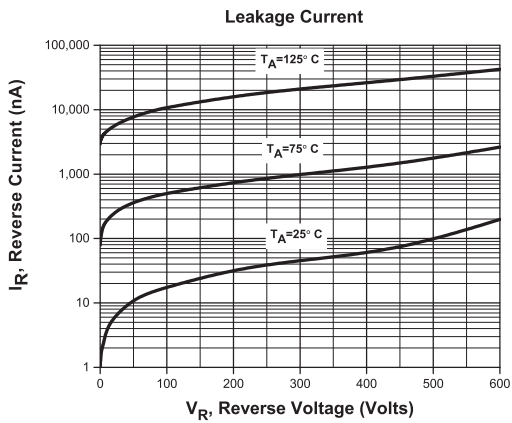
SMC (REV: R2)

R0 (12-February 2014)

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TYPICAL ELECTRICAL CHARACTERISTICS



R0 (12-February 2014)

OUTSTANDING SUPPORT AND SUPERIOR SERVICES



PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- Inventory bonding
- Consolidated shipping options
- Custom bar coding for shipments
- Custom product packing

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free quick ship samples (2nd day air)
- Online technical data and parametric search
- SPICE models
- Custom electrical curves
- Environmental regulation compliance
- Customer specific screening
- Up-screening capabilities
- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- Application and design sample kits
- Custom product and package development

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