

CMR1F-06M TR13 PBFREE Datasheet

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DiGi Electronics Part Number	CMR1F-06M TR13 PBFREE-DG
Manufacturer	Central Semiconductor Corp
Manufacturer Product Number	CMR1F-06M TR13 PBFREE
Description	DIODE GEN PURP 600V 1A SMA
Detailed Description	Diode 600 V 1A Surface Mount SMA

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This model CMR1F-06M TR13 PBFREE is available at DiGi Electronics.

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DiGi is a global authorized distributor of electronic components.

Purchase and inquiry

Manufacturer Product Number:

CMR1F-06M TR13 PBFREE

Series:

-

Technology:

Standard

Current - Average Rectified (Io):

1A

Speed:

Fast Recovery =< 500ns, > 200mA (Io)

Current - Reverse Leakage @ Vr:

5 μ A @ 600 V

Mounting Type:

Surface Mount

Supplier Device Package:

SMA

Base Product Number:

CMR1F-06

Manufacturer:

Central Semiconductor Corp

Product Status:

Active

Voltage - DC Reverse (Vr) (Max):

600 V

Voltage - Forward (Vf) (Max) @ If:

1.3 V @ 1 A

Reverse Recovery Time (trr):

250 ns

Capacitance @ Vr, F:

15pF @ 4V, 1MHz

Package / Case:

DO-214AC, SMA

Operating Temperature - Junction:

-65°C ~ 150°C

Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8541.10.0080

Moisture Sensitivity Level (MSL):

1 (Unlimited)

ECCN:

EAR99

CMR1F-02M CMR1F-08M
 CMR1F-04M CMR1F-10M
 CMR1F-06M

**SURFACE MOUNT SILICON
 FAST RECOVERY RECTIFIERS
 1.0 AMP, 200 THRU 1000 VOLT**



www.centrasemi.com



SMA CASE

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMR1F-02M series 1.0 Amp surface mount silicon rectifier is a well constructed, highly reliable component designed for use in all types of commercial, industrial, entertainment, computer, and automotive applications where small size is required. The SMA case occupies 30% less board space than the SMB case.

MARKING CODE: SEE MARKING CODE TABLE ON FOLLOWING PAGE

FEATURES:

- High reliability
- Glass passivated chip
- Special selections available

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

	SYMBOL	-02M	-04M	-06M	-08M	-10M	UNITS
Peak Repetitive Reverse Voltage	V _R RM	200	400	600	800	1000	V
DC Blocking Voltage	V _R	200	400	600	800	1000	V
RMS Reverse Voltage	V _R (RMS)	140	280	420	560	700	V
Average Forward Current (T _L =120°C)	I _O			1.0			A
Peak Forward Surge Current, tp=8.3ms	I _{FSM}			30			A
Operating and Storage							
Junction Temperature	T _J , T _{stg}			-65 to +150			°C
Thermal Resistance	θ _{JL}			30			°C/W

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

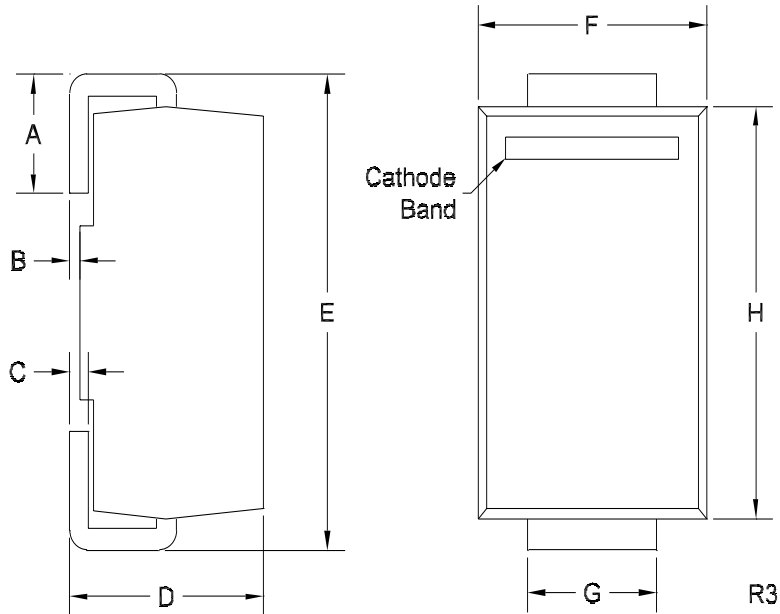
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I _R	V _R =Rated V _R RM		5.0	µA
I _R	V _R =Rated V _R RM, T _A =125°C		200	µA
V _F	I _F =1.0A		1.3	V
C _J	V _R =0, f=1.0MHz		35	pF
t _{rr}	I _F =0.5A, I _R =1.0A, I _{rr} =0.25A (CMR1F-02M, -04M)		150	ns
t _{rr}	I _F =0.5A, I _R =1.0A, I _{rr} =0.25A (CMR1F-06M)		250	ns
t _{rr}	I _F =0.5A, I _R =1.0A, I _{rr} =0.25A (CMR1F-08M, -10M)		500	ns



CMR1F-02M CMR1F-08M
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 CMR1F-06M

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SMA CASE - MECHANICAL OUTLINE



DEVICE	MARKING CODE
CMR1F-02M	CF02M
CMR1F-04M	CF04M
CMR1F-06M	CF06M
CMR1F-08M	CF08M
CMR1F-10M	CF10M

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	0.006	0.012	0.15	0.30
D	0.078	0.103	1.98	2.62
E	0.188	0.220	4.78	5.59
F	0.090	0.115	2.29	2.92
G	0.050	0.070	1.27	1.78
H	0.157	0.181	3.99	4.60

SMA (REV:R3)

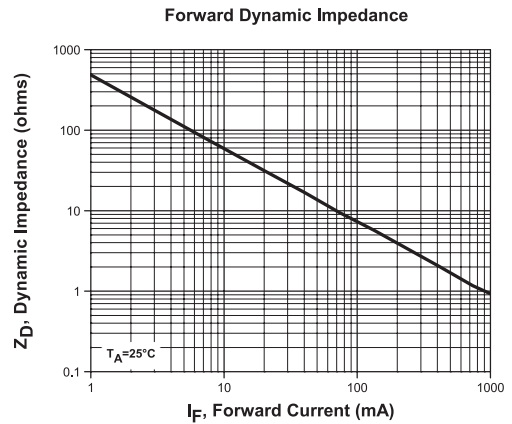
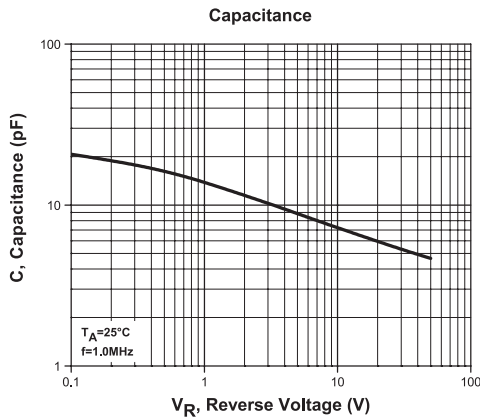
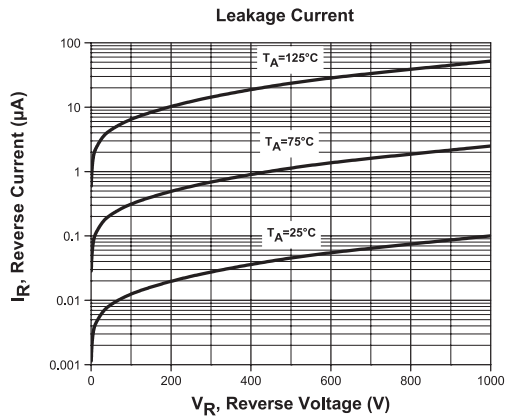
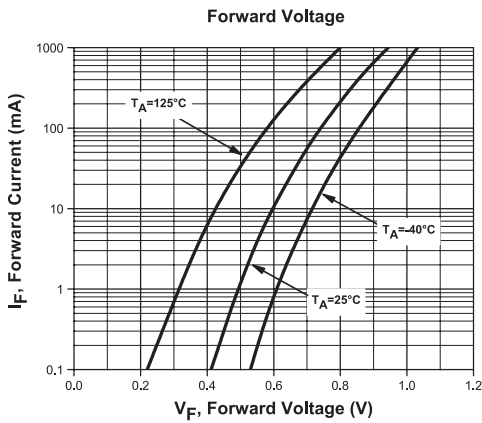
R5 (02-June 2023)

CMR1F-02M CMR1F-08M
 CMR1F-04M CMR1F-10M
 CMR1F-06M



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TYPICAL ELECTRICAL CHARACTERISTICS

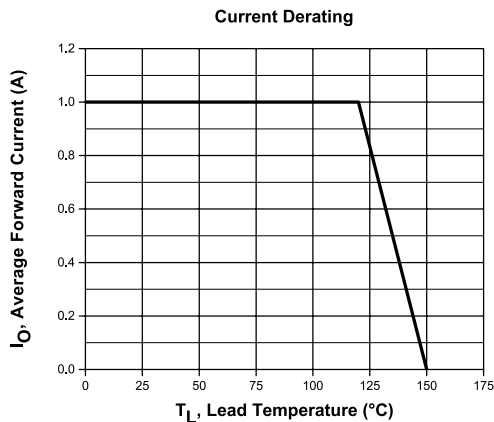
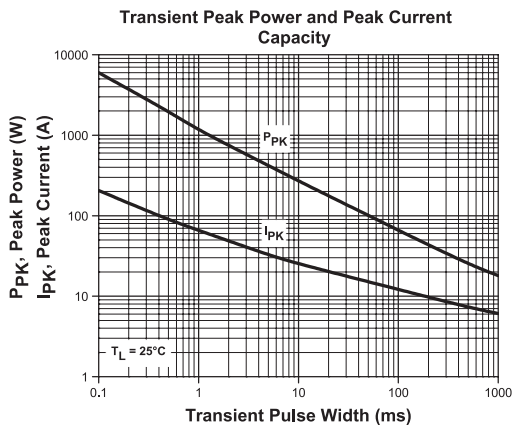


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TYPICAL ELECTRICAL CHARACTERISTICS





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

REQUESTING PRODUCT PLATING

1. If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
2. If requesting Lead (Pb) Free plated devices, add the suffix "PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

CONTACT US

Corporate Headquarters & Customer Support Team

Central Semiconductor Corp.
 145 Adams Avenue
 Hauppauge, NY 11788 USA
 Main Tel: (631) 435-1110
 Main Fax: (631) 435-1824
 Support Team Fax: (631) 435-3388
www.centrasemi.com

Worldwide Field Representatives:
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