CMR1H-04MFL

SURFACE MOUNT SILICON HYPERFAST RECOVERY RECTIFIER 1.0 AMP, 400 VOLT



APPLICATIONS:

- · Flyback diode
- Freewheeling diode
- DC-DC output rectification
- Voltage clamping



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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMR1H-04MFL is a 1.0 Amp, HyperFast recovery rectifier constructed with a glass passivated die and packaged in the low profile and thermally efficient SMAFL case. The device is ideal for applications requiring extremely fast recovery times, low switching losses and high voltage capability. The SMAFL fits on existing industry standard SMA mounting pad layouts.

MARKING CODE: CSF04M

FEATURES:

- HyperFast recovery time (20ns TYP)
- Low switching losses
- Thermally efficient package
- Fits on standard SMA pad layouts

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

	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V _{RRM}	400	V
DC Blocking Voltage	V _R	400	V
RMS Reverse Voltage	V _{R(RMS)}	280	V
Average Forward Current (TL=120°C)	IO	1.0	А
Peak Forward Surge Current, tp=8.3ms	IFSM	30	А
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +150	°C
Thermal Resistance	ΘJL	30	°C/W

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

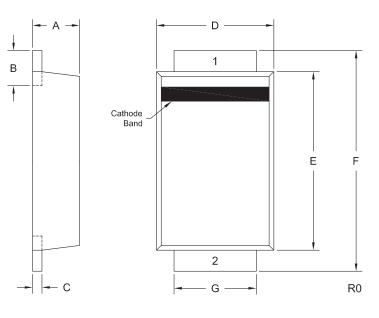
SYMBOL	TEST CONDITIONS	TYP	MAX	UNITS
IR	V _R =400V	0.03	1.0	μA
I _R	V _R =400V, T _A =100°C		150	μA
VF	I _F =1.0A	1.1	1.25	V
СЈ	V _R =4.0V, f=1.0MHz	13		pF
t _{rr}	I _F =0.5A, I _R =1.0A, I _{rr} =0.25A	20	25	ns

R1 (19-August 2013)



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SMAFL CASE - MECHANICAL OUTLINE

LEAD CODE:				
1) Cathode				
2) Anode				

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DIMENSIONS							
	INCHES		MILLIMETERS				
SYMBOL	MIN	MAX	MIN	MAX			
A	0.035	0.044	0.90	1.10			
В	0.021	0.038	0.55	0.95			
С	0.006	0.010	0.15	0.25			
D	0.094	0.103	2.40	2.60			
E	0.145	0.154	3.70	3.90			
F	0.177	0.193	4.50	4.90			
G	0.065	0.073	1.65	1.85			
SMAFL (REV: R0)							

SMAFL (REV: R0)

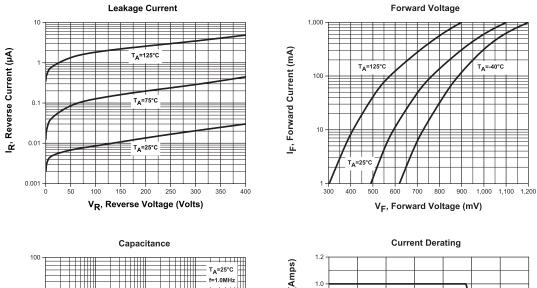
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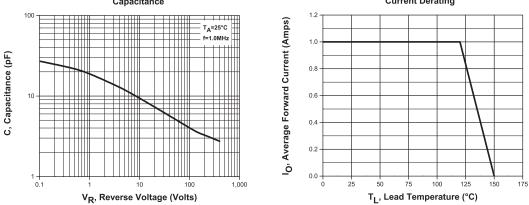


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TYPICAL ELECTRICAL CHARACTERISTICS



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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

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

- · Custom product packing
- - · Special wafer diffusions
 - PbSn plating options
 - · Package details
 - · Application notes
 - · Application and design sample kits
 - · Custom product and package development

CONTACT US

Corporate Headquarters & Customer Support Team

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