CMR1U-13M

SURFACE MOUNT SILICON **ULTRA FAST RECOVERY RECTIFIER** 1.0 AMP, 1300 VOLT



APPLICATIONS:

Thermal Resistance

 I_R

 V_{F}

trr CJ

BVR

V_R=1300V

I_R=0.5mA

I_F=1.0A

· Freewheeling diode

· Power factor correction

· Power supply snubber

-e 'n Semiconductor Corp

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UNITS V V V А

А

°C

°C/W

UNITS

μA

V

V

ns

pF

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMR1U-13M is a highly reliable 1.0 Amp silicon Ultra Fast Recovery rectifier designed for use in all types of high voltage applications where small size is required.

MARKING CODE: CU13M

FEATURES:

- · High reverse voltage
- · Ultra fast recovery time

30

MAX

5.0

1.9

75

TYP

6.0

· Low leakage current

 Θ_{JL}

1300

MAXIMUM RATINGS: (T _A =25°C unless otherwise noted)		
Peak Repetitive Reverse Voltage	SYMBOL V _{RRM}	1300
DC Blocking Voltage	°ккм Vв	1300
RMS Reverse Voltage	V _R (RMS)	910
Average Forward Current (T_{Δ} =75°C)	I _O	1.0
Peak Forward Surge Current, tp=8.3ms	IFSM	30
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +175

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

 SYMBOL
 TEST CONDITIONS
 MIN
 TY

I_F=0.5A, I_R=1.0A, I_{rr}=0.25A

V_R=4.0V, f=1.0MHz

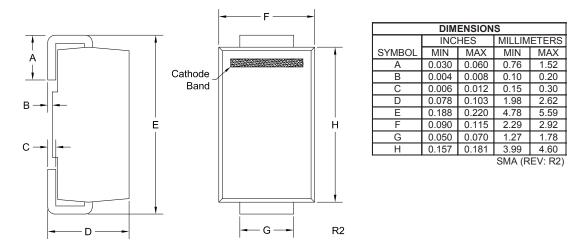
R2 (1-May 2015)



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SMA CASE - MECHANICAL OUTLINE



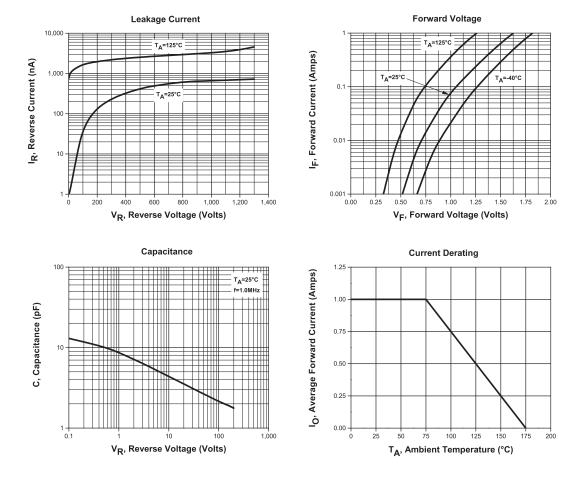
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TYPICAL ELECTRICAL CHARACTERISTICS

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CMR1U-01M CMR1U-06M CMR1U-02M CMR1U-10M CMR1U-04M



SURFACE MOUNT SILICON ULTRA FAST RECOVERY RECTIFIERS 1.0 AMP, 100 THRU 1000 VOLT

SERVICES

- · Bonded Inventory
- Custom Electrical Screening
- Custom Electrical Characteristic Curves
- SPICE Models
- Custom Packaging
- Package Base Options
- Custom Device Development/Multi Discrete Modules (MDM™)
- Bare Die Available for Hybrid Applications

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R6 (1-May 2015)

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