



APPLICATIONS:

- DC-DC Converters
- Voltage Clamping
- Protection Circuits
- Battery powered applications including Cell Phones, Digital Cameras, Pagers, PDA's, Laptop Computers, etc.

Central
Semiconductor Corp.

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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMMSH2-40 is a 2.0A, silicon Schottky rectifier. This high efficiency, Schottky features high current capacity packaged in a small, thermally efficient, SOD-123F surface mount package. When compared to similar devices in the larger SMA package, this device is 58% smaller, with a 67% lower profile, making it ideally suited for applications where performance and size are critical.

MARKING CODE: CS240F

FEATURES:

- High Current (2.0A Max), 40V Device
- V_F 0.5V Max
- High Surge Current 50A
- Thermally efficient SOD-123F Flat Lead package design

MAXIMUM RATINGS: (TJ=25°C)	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V _{RRM}	40	V
DC Blocking Voltage	V _R	40	V
Average Forward Current	Ι _Ο	2.0	А
Peak Forward Surge Current	^I FSM	50	А
Power Dissipation (Note 1)	PD	550	mW
Operating Junction Temperature	Тј	-55 to + 125	°C
Storage Temperature	T _{stg}	-55 to + 150	°C
Thermal Resistance	Θ_{JA}	181	°C/W

ELECTRICA	- CHARACTERISTICS: (T _J =25°C unless	s otherwise no	ted)
	TEAT AANDITIANA		TVD

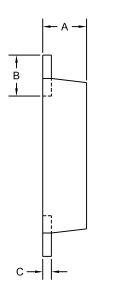
SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I _R	V _R =20V		3.0	150	μA
۱ _R	V _R =40V		23	500	μA
۱ _R	V _R =40V, T _J =85°C			25	mA
вv _R	I _R =0.5mA	40			V
V _F	I _F =2.0A		0.45	0.50	V
CJ	V _R =10V, f=1.0MHz			150	pF
СЈ	V _R =0, f=1.0MHz		292		pF

Note 1: FR-5 board (1.0 x 0.75 x 0.062in) with copper mounting pad area of 2.9mm^2

R2 (23-November 2015)



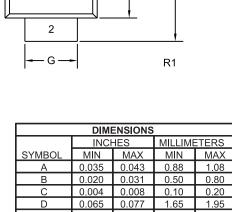




SOD-123F CASE - MECHANICAL OUTLINE

D —

1



0.116

0.156

0.104

0.140

Е

F

G

Е

F

LEAD CODE: 1) Cathode 2) Anode

MARKING CODE: CS240F

0.030	0.041	0.75	1.05		
SOD-123F (REV:R1)					

2.95

3.95

2.65

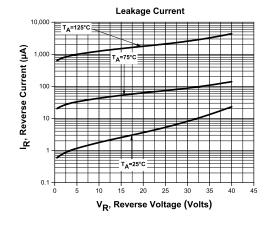
3.55

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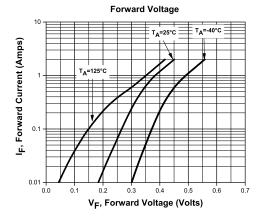
R2 (23-November 2015)



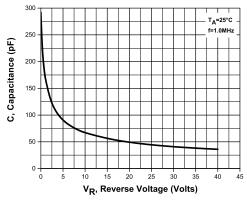










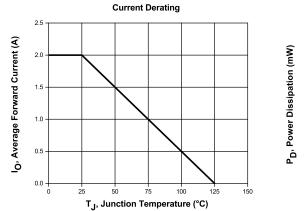


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Power Derating*

*FR-5 board (1.0 x 0.75 x 0.062in) with copper mounting pad area of 2.9 \mbox{mm}^2

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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

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

· Custom product packing

- PbSn plating options
- Package details
- Application notes
- Application and design sample kits

· Custom bar coding for shipments

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

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