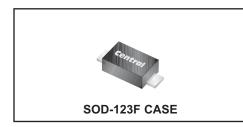


SURFACE MOUNT LOW V_F SILICON SCHOTTKY RECTIFIER 1 AMP, 40 VOLTS



APPLICATIONS:

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



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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMMSH1-40L is a 1.0A, Low V_F, Silicon Schottky Rectifier. This high efficiency, Low V_F 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: CS40FL

FEATURES:

- High Current (1.0A Max), 40V Device
- Low V_F (0.45V Max)
- High Surge Current 50A
- Thermally efficient SOD-123F Flat Lead package design

MAXIMUM RATINGS: (T _J =25°C unless otherwise noted)	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V _{RRM}	40	V
DC Blocking Voltage	VR	40	V
Average Forward Current	Ι _Ο	1.0	А
Peak Forward Surge Current	IFSM	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

ELECTRICAL CHARACTERISTICS: (T_1=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I _R	V _R =20V		3.0	150	μA
I _R	V _R =40V		10	500	μA
I _R	V _R =40V, T _J =85°C			25	mA
вv _R	I _R =0.5mA	40			V
VF	I _F =1.0A		0.4	0.45	V
CT	V _R =10V, f=1.0MHz		70		pF

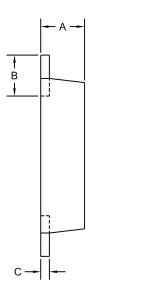
Notes: (1) FR-5 board (1.0 x 0.75 x 0.062in) with copper mounting pad area of 2.9mm²

R1 (25-January 2010)





SURFACE MOUNT LOW VF SILICON SCHOTTKY RECTIFIER 1 AMP, 40 VOLTS



LEAD CODE:

MARKING CODE: CS40FL

1) Cathode

2) Anode

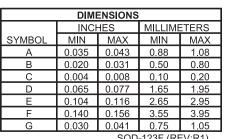
SOD-123F CASE - MECHANICAL OUTLINE

D –

1

2

G-



Е

F

R1

SOD-123F (REV:R1)

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