

APPLICATIONS:

- Load/Power switches
- Power supply converter circuits
- Battery powered equipment including cell phones, digital cameras, pagers, PDAs, etc.



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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMPSH1-4LE is an Enhanced high current, low leakage, low V_F, Schottky rectifier in a surface mount SOT-23F package. It is suitable for all applications requiring premium performance in a small sized, high current Schottky rectifier that offers both very low V_F and leakage current specifications.

MARKING CODE: CSE

FEATURES:

- Current (IF=1.0A)
- Low forward voltage drop (VF=0.39V MAX @ 1.0A)
- Low reverse current (150µA TYP @ VR=20V)
- Small, surface mount, power SOT-23F package

MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Continuous Reverse Voltage	V _R	40	V
Average Forward Current	IO	1.0	А
Peak Forward Surge Current, tp=8.3ms	IFSM	20	А
Power Dissipation	PD	350	mW
Operating and Storage Junction Temperature	Т _Ј , Т _{stg}	-65 to +125	°C
Thermal Resistance	Θ_{JA}	286	°C/W

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

SYMBOL	TEST CONDITIONS	MIN	ТҮР	MAX	UNITS
I _R	V _R =5.0V		60	200	μA
I _R	V _R =10V		85	300	μA
I _R	V _R =20V		150	500	μA
I _R	V _R =30V		250	800	μA
I _R	V _R =40V		350	900	μA
вv _R	I _R =1.0mA	40			V
V _F	I _F =100mA			300	mV
V _F	I _F =500mA			350	mV
V _F	I _F =1.0A			400	mV
V _F	I _F =1.5A			450	mV
СЈ	V _R =10V, f=1.0MHz		50		pF

R4 (21-September 2015)



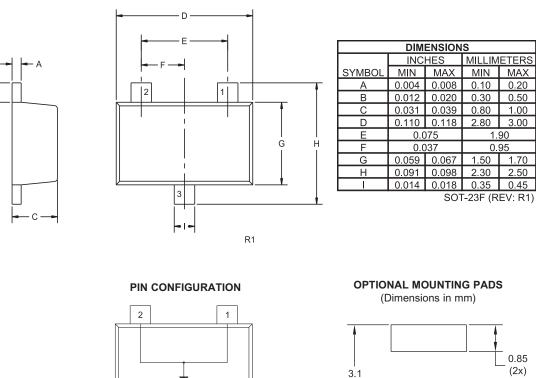


SURFACE MOUNT SILICON HIGH CURRENT LOW V_F, LOW LEAKAGE SCHOTTKY RECTIFIER

1

В

4



3

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LEAD CODE: 1) Anode

Anode
Cathode

SOT-23F CASE - MECHANICAL OUTLINE

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R0

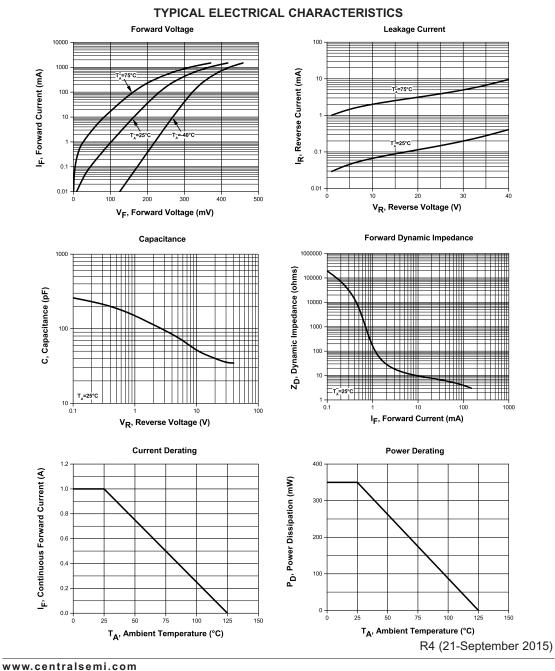
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(For standard mounting pads see SOT-23F Package Details)





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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
- 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

CONTACT US

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