

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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SURFACE MOUNT SILICON HIGH CURRENT SCHOTTKY RECTIFIER



www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMPSH1-4 is a High Current, Schottky Rectifier in a surface mount SOT-23F package suitable for high current applications in mobile communications and DC-DC converters.

MARKING CODE: SH1

Centrol

SOT-23F CASE

FEATURES:

- High Current (1.0 Amp)
- Power SOT-23F Package

MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Continuous Reverse Voltage	V_{R}	40	V
Continuous Forward Current	ΙF	1.0	Α
Average Forward Current	IO	1.75	Α
Peak Forward Surge Current, t≤100µs	I _{FSM}	12	Α
Peak Forward Surge Current, t≤10ms	I _{FSM}	5.2	Α
Power Dissipation	P_{D}	350	mW
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +150	°C
Thermal Resistance	$\Theta_{\sf JA}$	357	°C/W

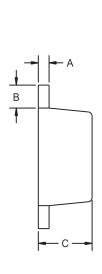
ELECTRICAL CHARACTERISTICS: (T_A=25°C unless otherwise noted)

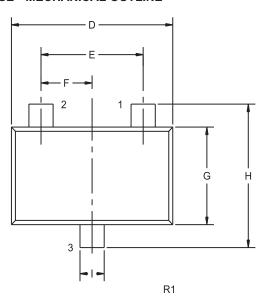
SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I_{R}	V _R =30V		2.0	100	μΑ
BV_R	I _R =100μA	40			V
٧ _F	I _F =100mA		347	390	mV
٧ _F	I _F =500mA		418	480	mV
٧ _F	I _F =1.0A		471	550	mV
٧ _F	I _F =1.5A		551	620	mV
٧ _F	I _F =1.0A, @ T _A =100°C		420		mV
CJ	V _R =25V, f=1.0MHz		25		pF
t _{rr}	I_F =500mA, I_R =500mA, I_{rr} =50mA		12		ns

SURFACE MOUNT SILICON HIGH CURRENT SCHOTTKY RECTIFIER

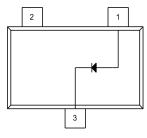


SOT-23F CASE - MECHANICAL OUTLINE





PIN CONFIGURATION



LEAD CODE:

- 1) Anode
- 2) No Connection
- 3) Cathode

MARKING CODE: SH1

DIMENSIONS							
	INCHES		MILLIMETERS				
SYMBOL	MIN	MAX	MIN	MAX			
Α	0.004	0.008	0.10	0.20			
В	0.012	0.020	0.30	0.50			
С	0.031	0.039	0.80	1.00			
D	0.110	0.118	2.80	3.00			
E	0.075		1.90				
F	0.037		0.95				
G	0.059	0.067	1.50	1.70			
Н	0.091	0.098	2.30	2.50			
	0.014	0.018	0.35	0.45			

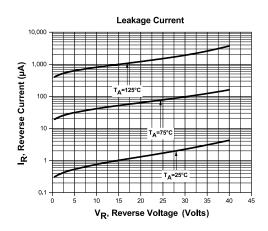
SOT-23F (REV: R1)

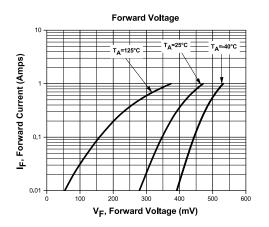
R4 (30-November 2015)

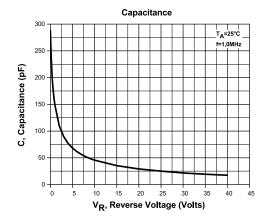




TYPICAL ELECTRICAL CHARACTERISTICS



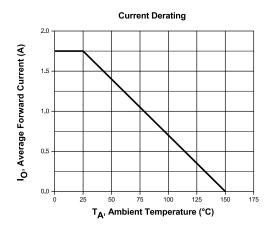


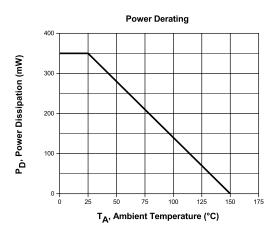






TYPICAL ELECTRICAL CHARACTERISTICS





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

- · 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 guick 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

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).
- 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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