SURFACE MOUNT SILICON DUAL, COMMON CATHODE HIGH CURRENT, LOW V_F SCHOTTKY DIODE





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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMPSH05-4C is a dual, common cathode high current, low V_{F} 40 volt Schottky diode pair packaged in a space saving SOT-23F surface mount case. This device has been designed for small signal general purpose applications when small size and operational efficiency are prime requirements.

MARKING CODE: C405

FEATURES:

- Low V_F=0.35V max @ 100mA
- V_{RRM}=40V
- I_F=500mA

MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	40	V
Continuous Forward Current	I _F	500	mA
Peak Repetitive Forward Current, tp≤1.0ms	I _{FRM}	3.5	Α
Peak Forward Surge Current, tp=8.0ms	I _{FSM}	10	Α
Power Dissipation	P_{D}	350	mW
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +150	°C
Thermal Resistance	Θ_{JA}	357	°C/W

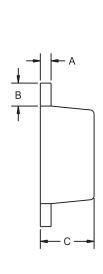
ELECTRICAL CHARACTERISTICS PER DIODE: (T_A=25°C unless otherwise noted)

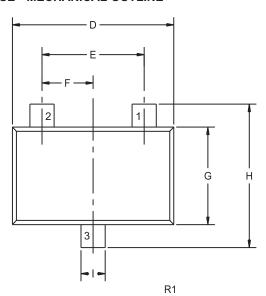
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I_{R}	V _R =10V		20	μΑ
I_{R}	V _R =30V		100	μΑ
BV_R	I _R =500μA	40		V
V_{F}	I _F =100μA		0.13	V
V_{F}	I _F =1.0mA		0.21	V
V_{F}	I _F =10mA		0.27	V
V_{F}	I _F =100mA		0.35	V
V_{F}	I _F =500mA		0.47	V
CJ	V_R =1.0 V , f=1.0 M Hz		50	pF

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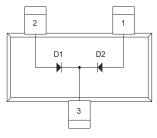


SOT-23F CASE - MECHANICAL OUTLINE





PIN CONFIGURATION



LEAD CODE:

- 1) Anode D2
- 2) Anode D1
- 3) Cathode D1, D2

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)

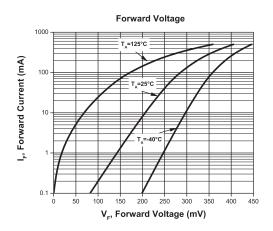
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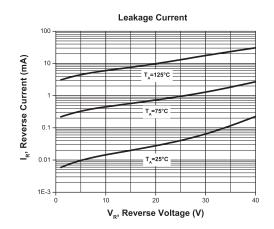
R2 (30-September 2015)

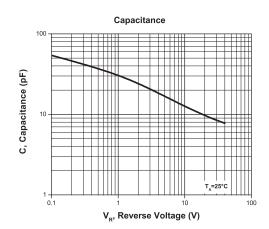
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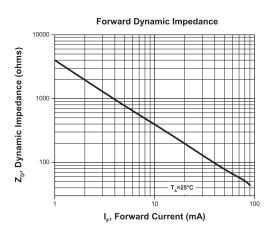


TYPICAL ELECTRICAL CHARACTERISTICS





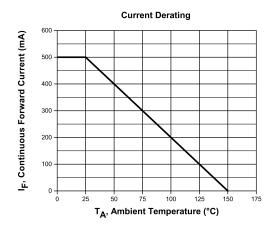


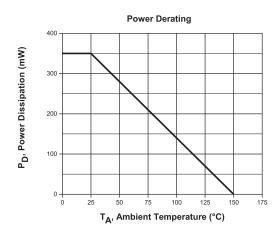


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TYPICAL ELECTRICAL CHARACTERISTICS





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Central's operations team provides the highest level of support to insure product is delivered on-time.

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- · Inventory bonding
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- · Custom bar coding for shipments
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- Environmental regulation compliance
- · Customer specific screening
- · Up-screening capabilities

- · Special wafer diffusions
- · PbSn plating options
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- · Application notes
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- · Custom product and package development

CONTACT US

Corporate Headquarters & Customer Support Team

Central Semiconductor Corp. 145 Adams Avenue Hauppauge, NY 11788 USA

Main Tel: (631) 435-1110 Main Fax: (631) 435-1824

Support Team Fax: (631) 435-3388

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