SURFACE MOUNT SILICON SCHOTTKY DIODE



SOD-882L CASE

APPLICATIONS:

- DC-DC converters
- Voltage clamping
- Protection circuits
- Battery powered applications including cell phones, digital cameras, pagers, PDAs, laptop computers, etc.

Central semiconductor Corp.

www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CFSH-4 is a high quality Schottky diode designed for applications where ultra small size and power dissipation are prime requirements. Packaged in the space saving SOD-882L surface mount package, this component provides performance characteristics suitable for the most demanding size constrained applications.

MARKING CODE: L

FEATURES:

- Device is Halogen Free by design
- Current (I_O=200mA)
- Low forward voltage drop (V_F=0.35V TYP @ 1.0mA)
- Low reverse current (25nA TYP @ 30V)
- Extremely fast switching (5.0ns MAX)
- Small 1mm x 0.6mm x 0.4mm, SOD-882L, ultra low profile, leadless surface mount package.

MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	40	V
Average Forward Current	IO	200	mA
Peak Forward Surge Current, tp=8.3ms	I _{FSM}	600	mA
Power Dissipation	P_{D}	100	mW
Operating Junction Temperature	T_J	-65 to +125	°C
Storage Temperature	T _{stg}	-65 to +150	°C
Thermal Resistance	Θ_{JA}	1000	°C/W

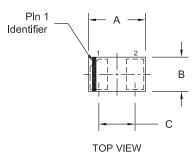
ELECTRICAL CHARACTERISTICS: (T_A=25°C unless otherwise noted)

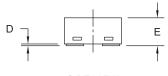
SYMBOL I _R	TEST CONDITIONS V _R =30V	MIN	TYP 25	MAX 200	UNITS nA
BV_R	I _R =10μA	40			V
V_{F}	I _F =1.0mA		0.35	0.38	V
V_{F}	I _F =15mA		0.55	0.65	V
V_{F}	I _F =40mA		0.77	1.00	V
CJ	V _R =0, f=1.0MHz			5.0	pF
t _{rr}	$I_F = I_R = 10$ mA, $I_{rr} = 1.0$ mA, $R_L = 100$ Ω			5.0	ns

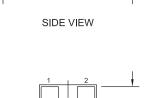
SURFACE MOUNT SILICON **SCHOTTKY DIODE**

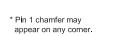


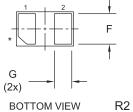
SOD-882L CASE - MECHANICAL OUTLINE











DIMENSIONS						
	INCHES		MILLIMETERS			
SYMBOL	MIN	MAX	MIN	MAX		
Α	0.037	0.041	0.95	1.05		
В	0.022	0.026	0.55	0.65		
С	0.026		0.65			
D	0.000	0.002	0.00	0.05		
E	0.012	0.016	0.30	0.40		
F	0.018	0.022	0.45	0.55		
G	0.008	0.012	0.20	0.30		
COD 8821 (DEV/D2)						

SOD-882L (REV:R2)

LEAD CODE:

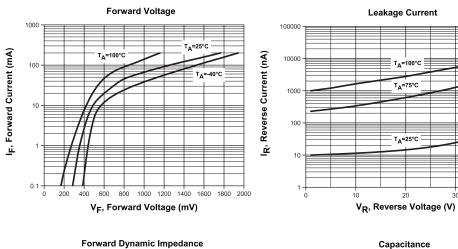
- 1) Cathode 2) Anode

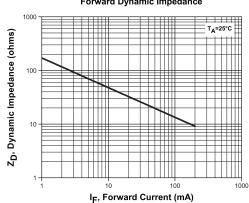
MARKING CODE: L

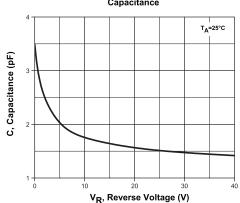




TYPICAL ELECTRICAL CHARACTERISTICS



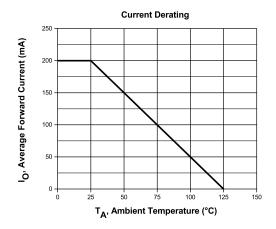


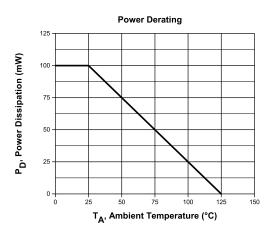


SURFACE MOUNT SILICON SCHOTTKY DIODE



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).
- 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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