

APPLICATIONS:

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



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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMASH-4 is a high quality Schottky diode designed for applications where very small size and operational efficiency are prime requirements.

MARKING CODE: A

FEATURES:

- 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)
- Miniature, 0.8 x 0.6 x 0.4mm, ultra low height profile 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	IFSM	600	mA
Power Dissipation	PD	100	mW
Operating Junction Temperature	ТЈ	-65 to +125	°C
Storage Temperature	T _{stg}	-65 to +150	°C
Thermal Resistance	ΘJA	1000	°C/W

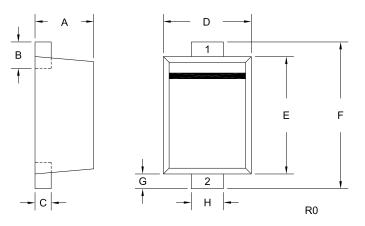
ELECTRICAL	. CHARACTERISTICS: (T _A =25°C unle	e noted)			
SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
IR	V _R =30V		25	200	nA
BVR	Ι _R =10μΑ	40			V
V _F	I _F =1.0mA		0.35	0.38	V
V _F	I _F =15mA		0.55	0.65	V
V _F	I _F =40mA		0.77	1.00	V
СЈ	V _R =0, f=1.0MHz			5.0	pF
t _{rr}	I _F =I _R =10mA, I _{rr} =1.0mA, R _L =100Ω			5.0	ns

R2 (3-August 2015)





SOD-923 CASE - MECHANICAL OUTLINE



LEAD CODE: 1) Cathode 2) Anode

MARKING CODE: A

DIMENSIONS							
	INCHES		MILLIMETERS				
SYMBOL	MIN	MAX	MIN	MAX			
А	0.015	0.016	0.39	0.41			
В	0.004	0.010	0.10	0.26			
С	0.003	0.006	0.08	0.14			
D	0.022	0.026	0.55	0.65			
E	0.030	0.033	0.75	0.85			
F	0.035	0.043	0.90	1.10			
G	0.002	0.006	0.05	0.15			
Н	0.007	0.011	0.17	0.27			
SOD-923 (REV: R0)							

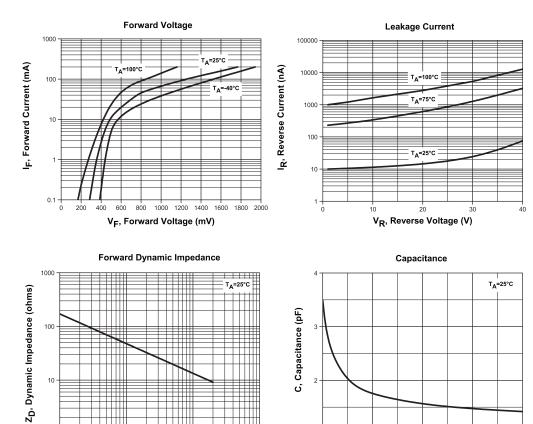
SOD-923 (REV: R0)

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1000

100

10

IF, Forward Current (mA)

1 -

ò

20

V_R, Reverse Voltage (V)

10

30

TYPICAL ELECTRICAL CHARACTERISTICS

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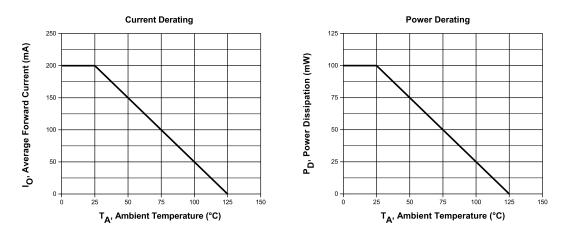
1+ 1

R2 (3-August 2015)

40







TYPICAL ELECTRICAL CHARACTERISTICS

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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

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

· Custom product packing

- PbSn plating options
- Package details
- Application notes
- Application and design sample kits

· Custom bar coding for shipments

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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