SURFACE MOUNT SILICON SCHOTTKY DIODE



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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMHSH-3 is a silicon Schottky diode, epoxy molded in a SOD-123 surface mount package, designed for fast switching applications requiring a low forward voltage drop.

MARKING CODE: CH3



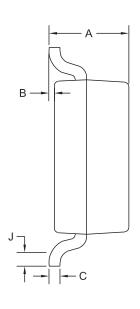
MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	30	V
Continuous Forward Current	l _F	200	mA
Peak Repetitive Forward Current	I _{FRM}	300	mA
Peak Forward Surge Current, tp<1.0s	I _{FSM}	600	mA
Power Dissipation	P_{D}	400	mW
Operating and Storage Junction Temperature	T _{J,} T _{stg}	-65 to +150	°C
Thermal Resistance	Θ_{JA}	312.5	°C/W

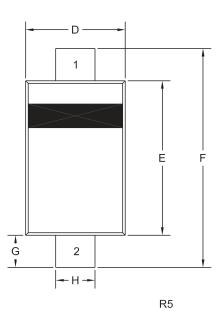
MAX UNITS V_R=25V 2.0 I_R μΑ BV_R I_R=100μA 30 V I_F=100μA 240 mV V_{F} I_E=1.0mA 320 mV V_{F} I_F=10mA V_{F} 400 mV V_{F} I_F=30mA 500 mV I_E=100mA 1.0 V V_{F} C_J V_R =1.0 V_r , f=1.0 V_r 7.0 pF $I_F = I_R = 10$ mA, $I_{rr} = 1.0$ mA, $R_L = 100$ Ω 7.0 t_{rr} ns

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SOD-123 CASE - MECHANICAL OUTLINE





LEAD CODE1) Cathode

2) Anode

MARKING CODE: CH3

DIMENSIONS						
	INCHES		MILLIMETERS			
SYMBOL	MIN	MAX	MIN	MAX		
Α	0.037	0.053	0.95	1.35		
В	0.000	0.005	0.00	0.12		
С	-	0.008	-	0.20		
D	0.055	0.071	1.40	1.80		
Е	0.098	0.110	2.50	2.80		
F	0.142	0.154	3.60	3.90		
G	0.016		0.40	-		
Н	0.020	0.028	0.50	0.70		
J	0.010	-	0.25	-		

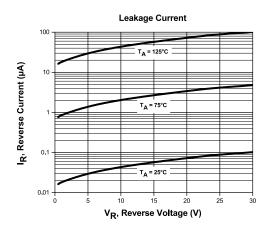
SOD-123 (REV:R5)

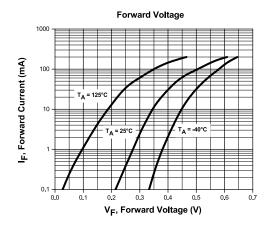
R7 (16-February 2016)

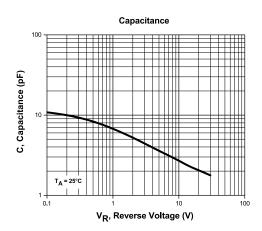
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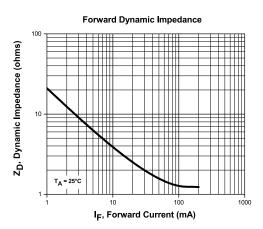


TYPICAL ELECTRICAL CHARACTERISTICS





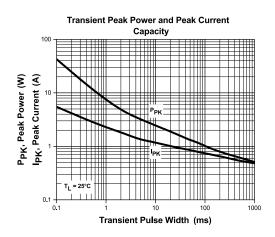


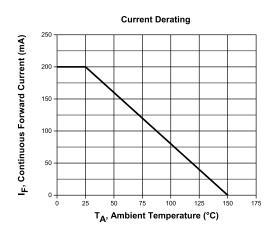


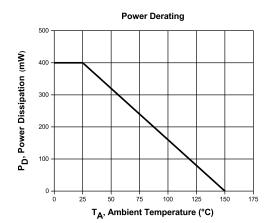
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TYPICAL ELECTRICAL CHARACTERISTICS







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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