

CMHSH-3 BK PBFREE Datasheet

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DiGi Electronics Part Number	CMHSH-3 BK PBFREE-DG
Manufacturer	Central Semiconductor Corp
Manufacturer Product Number	CMHSH-3 BK PBFREE
Description	DIODE SCHOTTKY 30V 200MA SOD123
Detailed Description	Diode 30 V 200mA Surface Mount SOD-123

This model CMHSH-3 BK PBFREE is available at DiGi Electronics.

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RFQ Email: Info@DiGi-Electronics.com

DiGi is a global authorized distributor of electronic components.

Purchase and inquiry

Manufacturer Product Number:

CMHSH-3 BK PBFREE

Series:

-

Technology:

Schottky

Current - Average Rectified (Io):

200mA

Speed:

Small Signal \leq 200mA (Io), Any Speed

Current - Reverse Leakage @ Vr:

2 μ A @ 25 V

Mounting Type:

Surface Mount

Supplier Device Package:

SOD-123

Base Product Number:

CMHSH-3

Manufacturer:

Central Semiconductor Corp

Product Status:

Active

Voltage - DC Reverse (Vr) (Max):

30 V

Voltage - Forward (Vf) (Max) @ If:

1 V @ 100 mA

Reverse Recovery Time (trr):

7 ns

Capacitance @ Vr, F:

7pF @ 1V, 1MHz

Package / Case:

SOD-123

Operating Temperature - Junction:

-65°C ~ 150°C

Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8541.10.0070

Moisture Sensitivity Level (MSL):

1 (Unlimited)

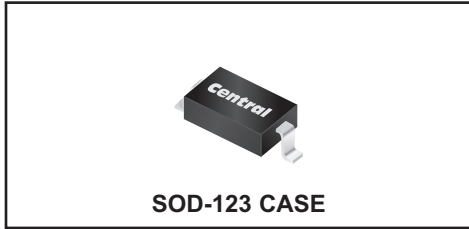
ECCN:

EAR99

CMHSH-3
SURFACE MOUNT SILICON
SCHOTTKY DIODE



www.centrasemi.com



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)

Peak Repetitive Reverse Voltage
 Continuous Forward Current
 Peak Repetitive Forward Current
 Peak Forward Surge Current, tp<1.0s
 Power Dissipation
 Operating and Storage Junction Temperature
 Thermal Resistance

SYMBOL

V_{RRM} 30
 I_F 200
 I_{FRM} 300
 I_{FSM} 600
 P_D 400
 T_J, T_{stg} -65 to +150
 Θ_{JA} 312.5

UNITS

V
 mA
 mA
 mA
 mW
 °C
 °C/W

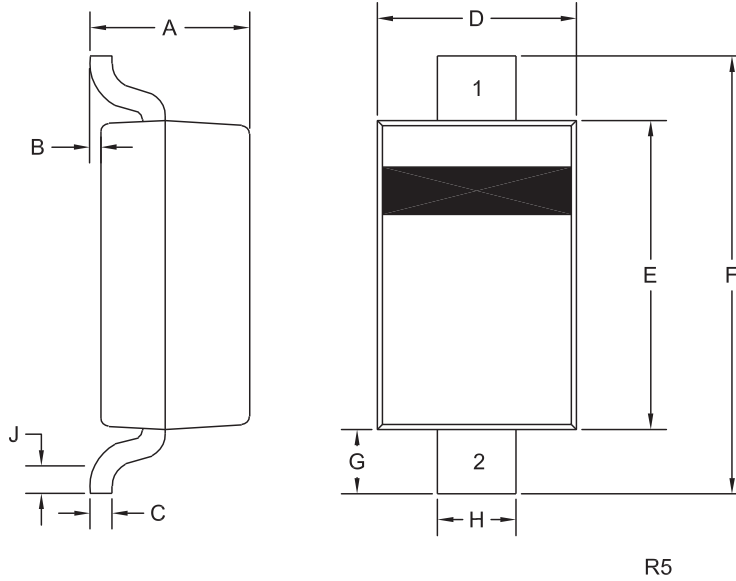
ELECTRICAL CHARACTERISTICS: (T_A=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I _R	V _R =25V			2.0	μA
BV _R	I _R =100μA	30			V
V _F	I _F =100μA			240	mV
V _F	I _F =1.0mA			320	mV
V _F	I _F =10mA			400	mV
V _F	I _F =30mA			500	mV
V _F	I _F =100mA			1.0	V
C _J	V _R =1.0V, f=1.0MHz		7.0		pF
t _{rr}	I _F =I _R =10mA, I _{rr} =1.0mA, R _L =100Ω		7.0		ns



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SOD-123 CASE - MECHANICAL OUTLINE



LEAD CODE

- 1) Cathode
- 2) Anode

MARKING CODE: CH3

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

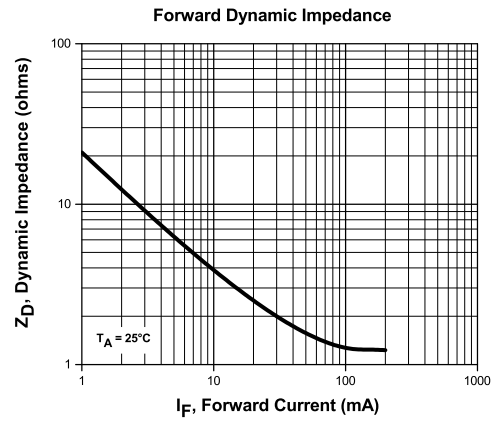
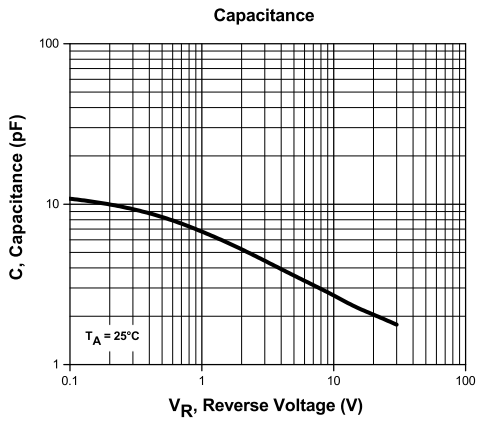
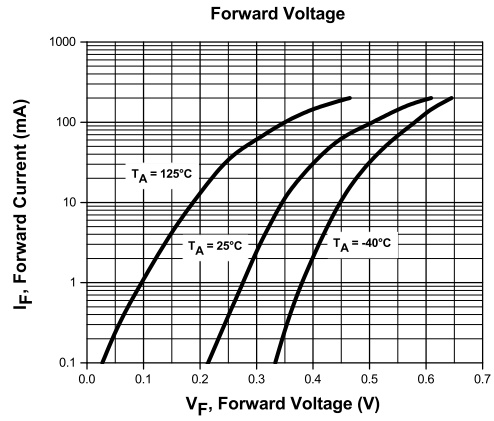
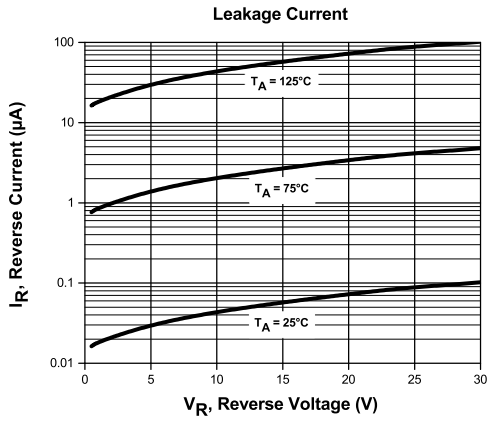
SOD-123 (REV:R5)

R7 (16-February 2016)



CMHSH-3
SURFACE MOUNT SILICON
SCHOTTKY DIODE

TYPICAL ELECTRICAL CHARACTERISTICS

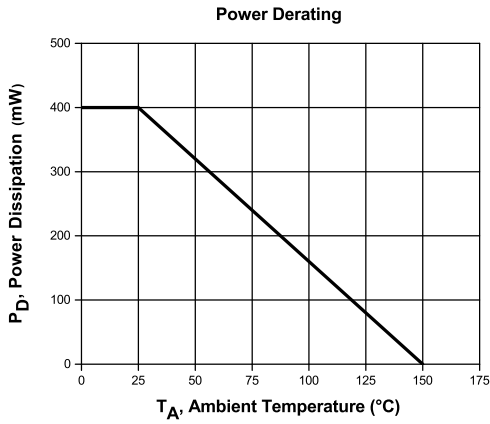
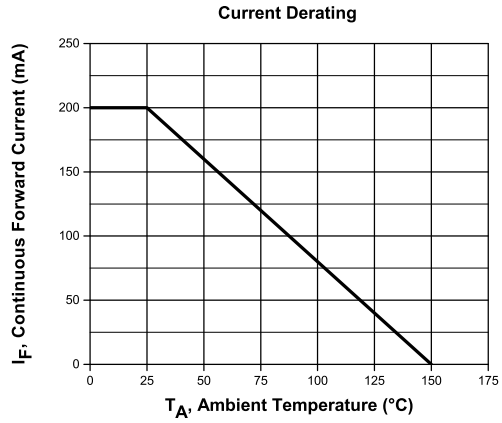
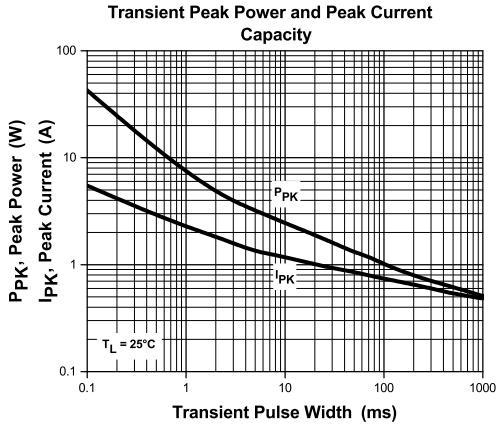


R7 (16-February 2016)

CMHSH-3
SURFACE MOUNT SILICON
SCHOTTKY DIODE



TYPICAL ELECTRICAL CHARACTERISTICS



R7 (16-February 2016)



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 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
- 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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