

CBRDFSH2-40  
CBRDFSH2-60  
CBRDFSH2-100

**SURFACE MOUNT  
2.0 AMP SILICON  
SCHOTTKY BRIDGE RECTIFIERS**



[www.centrasemi.com](http://www.centrasemi.com)

#### DESCRIPTION:

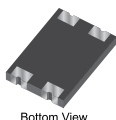
The CENTRAL SEMICONDUCTOR CBRDFSH2-40, CBRDFSH2-60, and CBRDFSH2-100 are 2.0 Amp full wave bridge rectifiers mounted in a durable epoxy surface mount case, utilizing glass passivated chips.

**MARKING CODES: CBRDFSH2-40: SH2-40  
CBRDFSH2-60: SH2-60  
CBRDFSH2-100: SH2100**

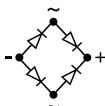
**BRIDGE**



Top View



Bottom View



**BR DFN CASE**

**MAXIMUM RATINGS:** ( $T_A=25^{\circ}\text{C}$  unless otherwise noted)

	SYMBOL	-40	-60	-100	UNITS
Peak Repetitive Reverse Voltage	$V_{RRM}$	40	60	100	V
DC Blocking Voltage	$V_R$	40	60	100	V
RMS Reverse Voltage	$V_{R(RMS)}$	28	42	70	V
Average Forward Current ( $T_A=50^{\circ}\text{C}$ )	$I_O$		2.0		A
Peak Forward Surge Current (8.3ms)	$I_{FSM}$		50		A
Operating and Storage Junction Temperature	$T_J, T_{stg}$	-55 to +125			$^{\circ}\text{C}$

**ELECTRICAL CHARACTERISTICS PER DIODE:** ( $T_A=25^{\circ}\text{C}$  unless otherwise noted)

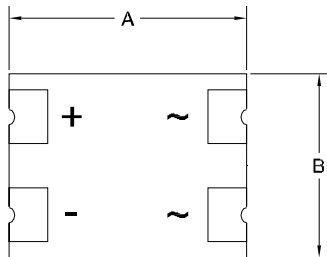
SYMBOL	TEST CONDITIONS	TYP	MAX	UNITS
$I_R$	$V_R=40\text{V}$ (CBRDFSH2-40)	25	200	$\mu\text{A}$
$I_R$	$V_R=60\text{V}$ (CBRDFSH2-60)	15	200	$\mu\text{A}$
$I_R$	$V_R=100\text{V}$ (CBRDFSH2-100)	0.5	200	$\mu\text{A}$
$V_F$	$I_F=2.0\text{A}$ (CBRDFSH2-40)	490	520	mV
$V_F$	$I_F=2.0\text{A}$ (CBRDFSH2-60)	600	750	mV
$V_F$	$I_F=2.0\text{A}$ (CBRDFSH2-100)	800	850	mV
$C_J$	$V_R=4.0\text{V}$ , $f=1.0\text{MHz}$		250	pF

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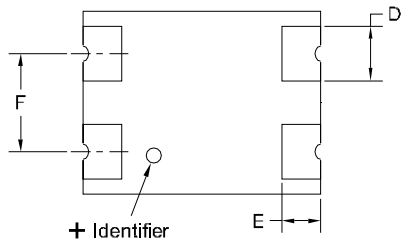
## BR DFN CASE - MECHANICAL OUTLINE



TOP VIEW



SIDE VIEW



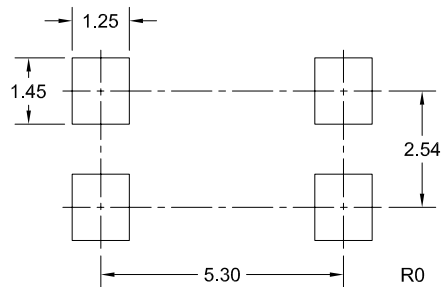
BOTTOM VIEW

R2

SYMBOL	DIMENSIONS			
	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.238	0.246	6.05	6.25
B	0.183	0.191	4.65	4.85
C	0.032	0.048	0.81	1.22
D	0.051	0.059	1.30	1.50
E	0.037	0.041	0.95	1.05
F	0.098	0.102	2.49	2.59

BR DFN (REV: R2)

## SUGGESTED MOUNTING PADS (Dimensions in mm)



**MARKING CODES: CBRDFSH2-40: SH2-40  
CBRDFSH2-60: SH2-60  
CBRDFSH2-100: SH2100**

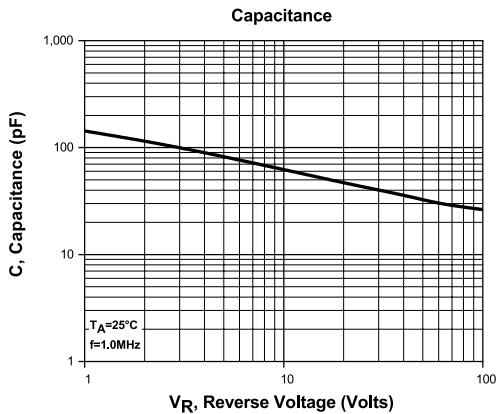
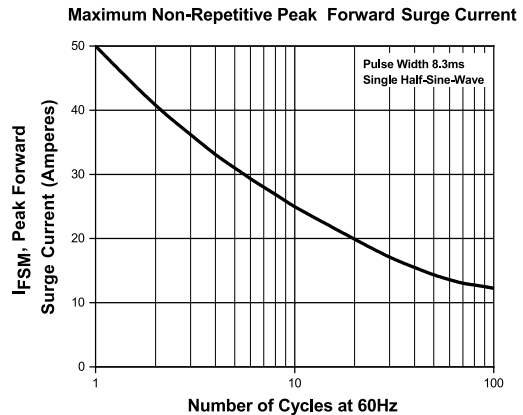
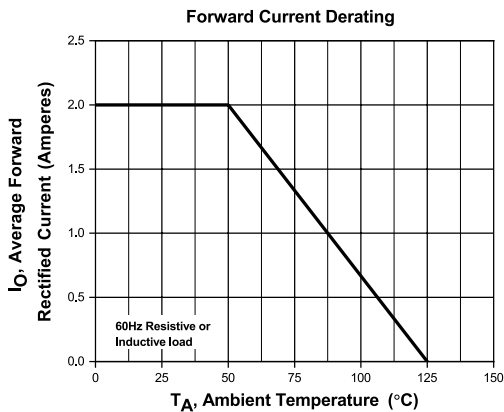
R5 (15-August 2022)

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## TYPICAL ELECTRICAL CHARACTERISTICS

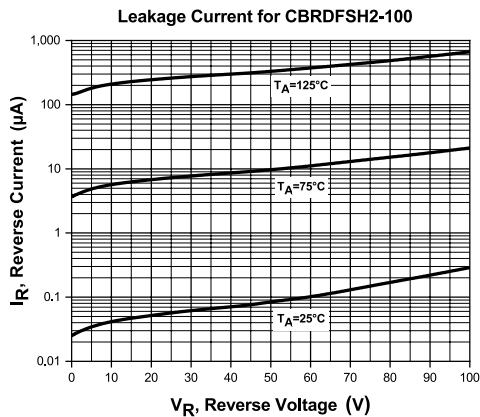
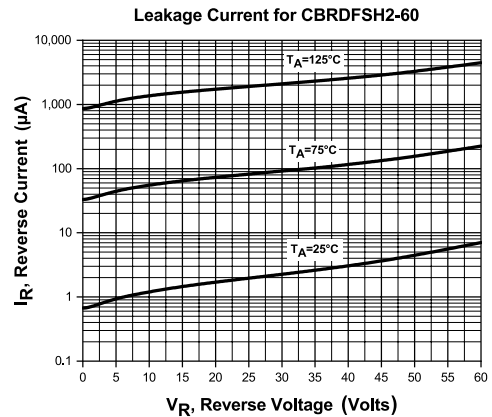
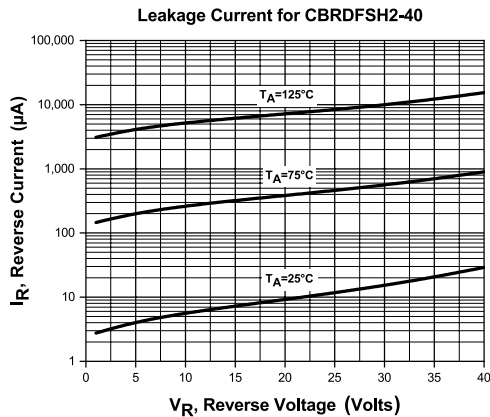


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## TYPICAL ELECTRICAL CHARACTERISTICS

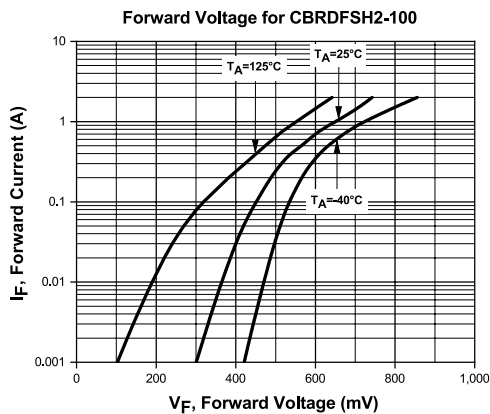
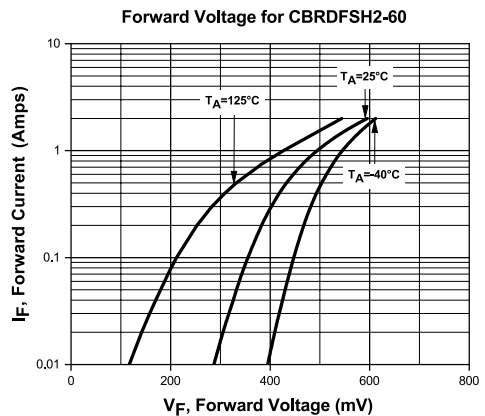
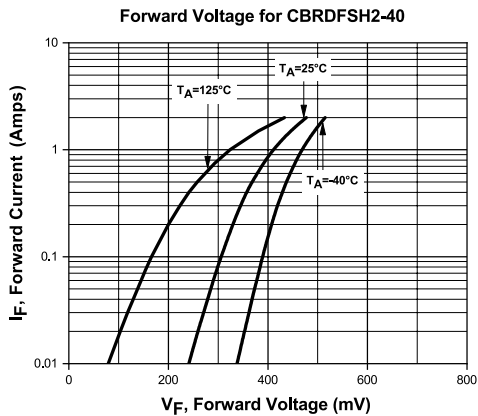


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## TYPICAL ELECTRICAL CHARACTERISTICS



R5 (15-August 2022))

## OUTSTANDING SUPPORT AND SUPERIOR SERVICES



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### 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

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### DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free quick ship samples (2<sup>nd</sup> 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

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### 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).

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### CONTACT US

#### Corporate Headquarters & Customer Support Team

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