

CBRDFSH3-40
CBRDFSH3-60

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

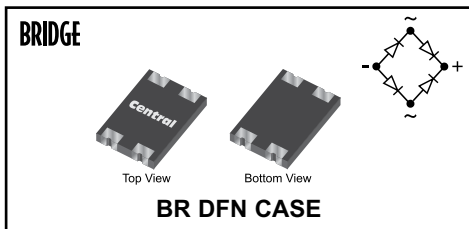


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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CBRDFSH3-40 and CBRDFSH3-60 are 3.0 Amp full wave bridge rectifiers mounted in a durable epoxy surface mount case, utilizing glass passivated chips.

**MARKING CODES: CBRDFSH3-40: SH3-40
CBRDFSH3-60: SH3-60**



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

	SYMBOL	CBRDFSH3-40	CBRDFSH3-60	UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	40	60	V
DC Blocking Voltage	V_R	40	60	V
RMS Reverse Voltage	$V_{R(RMS)}$	28	42	V
Average Forward Current ($T_A=50^{\circ}\text{C}$)	I_O		3.0	A
Peak Forward Surge Current (8.3ms)	I_{FSM}		65	A
Operating and Storage Junction Temperature ¹	T_J, T_{stg}	-55 to +125		$^{\circ}\text{C}$
Operating Junction Temperature ²	T_J	-55 to +100		$^{\circ}\text{C}$

Note 1: Pulsed, AC, and unbiased rating.

Note 2: Continuous power rating.

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

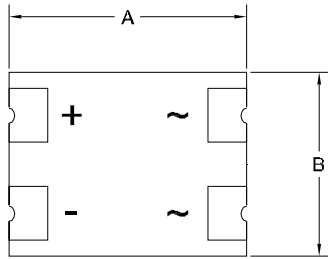
SYMBOL	TEST CONDITIONS	TYP	MAX	UNITS
I_R	$V_R=40\text{V}$ (CBRDFSH3-40)	10	200	μA
I_R	$V_R=60\text{V}$ (CBRDFSH3-60)	5.0	200	μA
V_F	$I_F=3.0\text{A}$ (CBRDFSH3-40)	530	550	mV
V_F	$I_F=3.0\text{A}$ (CBRDFSH3-60)	670	700	mV
C_J	$V_R=4.0\text{V}$, $f=1.0\text{MHz}$		250	pF

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BR DFN CASE - MECHANICAL OUTLINE



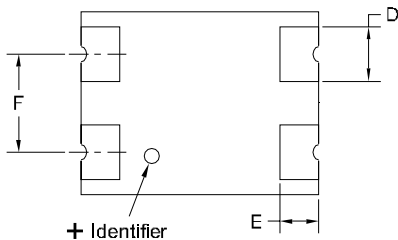
TOP VIEW

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)



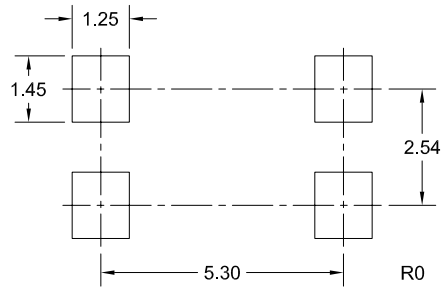
SIDE VIEW



BOTTOM VIEW

R2

**SUGGESTED MOUNTING PADS
(Dimensions in mm)**



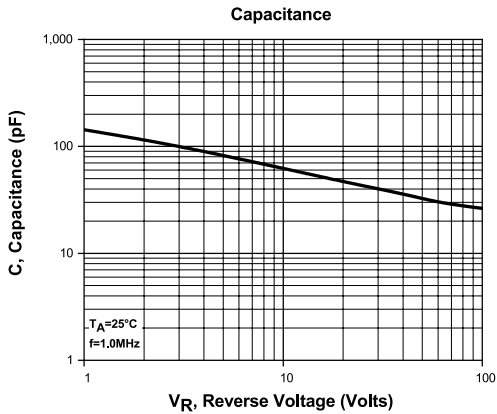
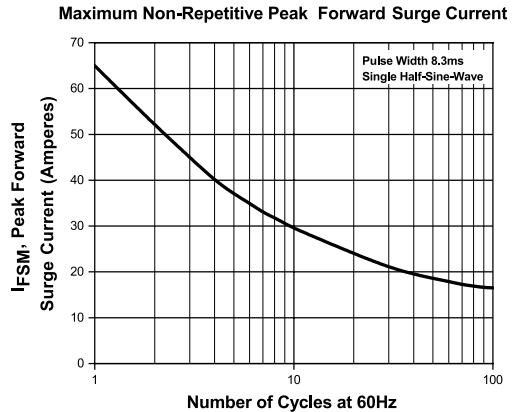
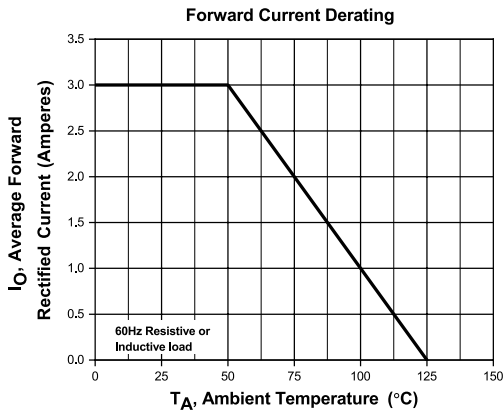
**MARKING CODES: CBRDFSH3-40: SH3-40
CBRDFSH3-60: SH3-60**

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TYPICAL ELECTRICAL CHARACTERISTICS

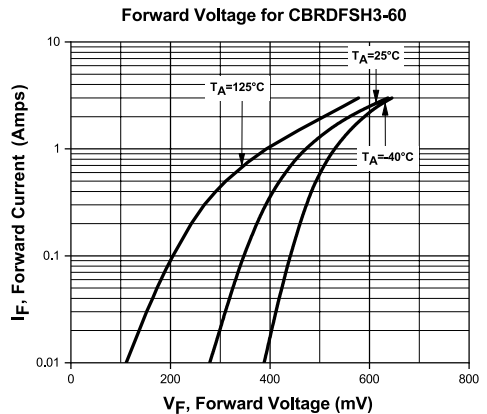
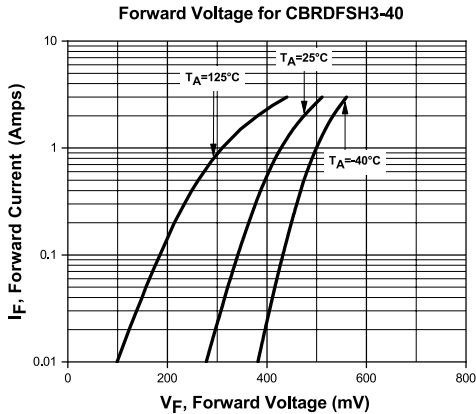
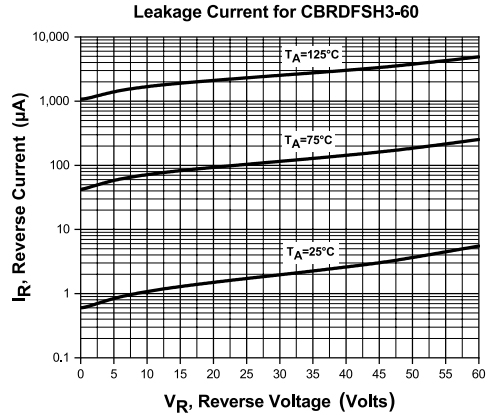
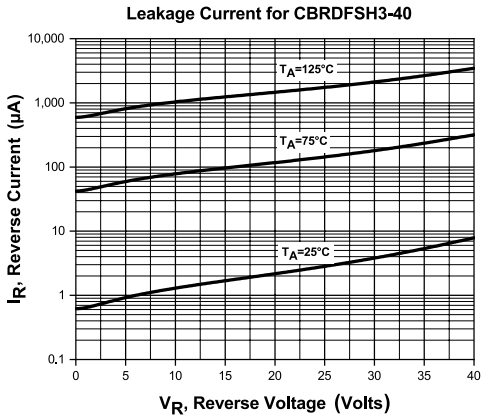


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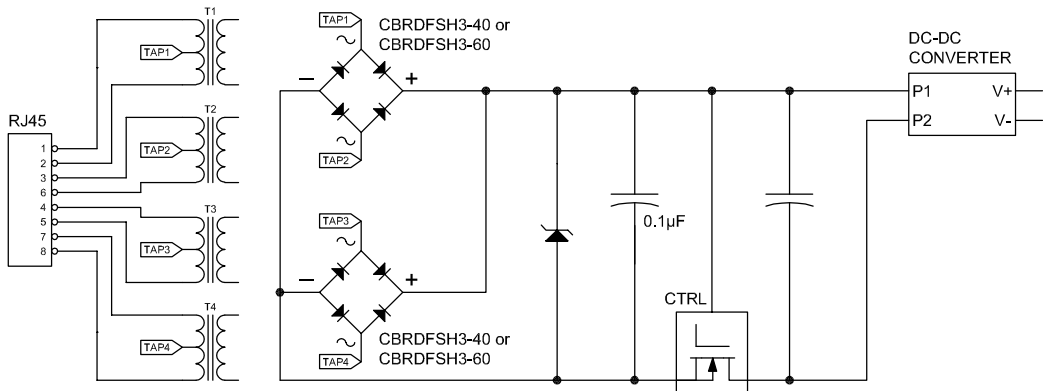


Figure 1. Application Circuit

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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