

**Central**<sup>TM</sup>  
**Semiconductor Corp.**

**FEATURES:**

- Monolithic construction
- Fast switching
- All diodes share closely matched electrical characteristics.
- Very small size

**DESCRIPTION:**

The Central Semiconductor CMFBR-6F is a monolithic silicon full wave bridge rectifier, epoxy molded in a SOT-143 surface mount package. This device has been designed for use in computers and peripheral equipment requiring high speed switching, small size, and closely matched  $V_F$ .

**MARKING CODE: CBR2**

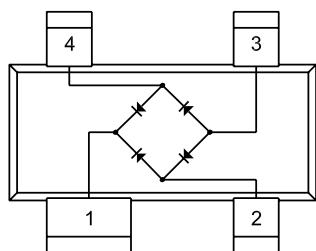
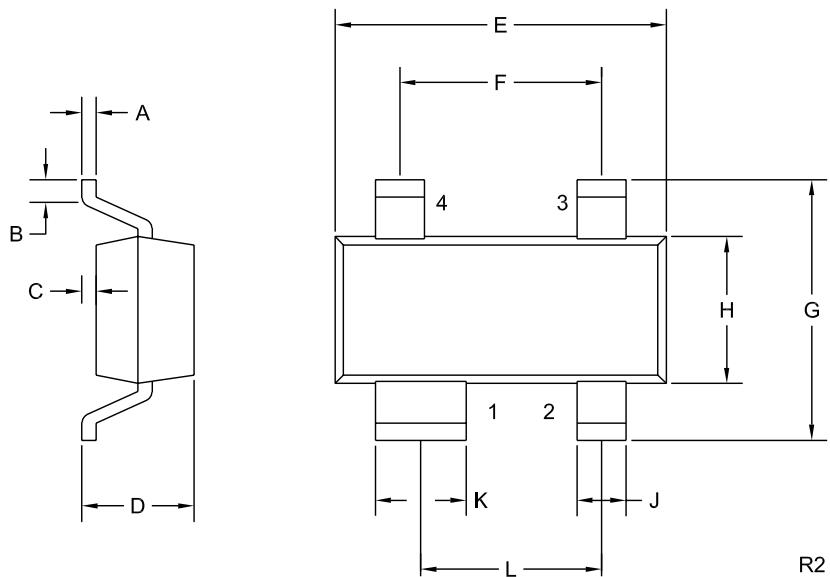
**MAXIMUM RATINGS:** ( $T_A=25\text{ }^\circ\text{C}$ )

	SYMBOL	UNITS
Peak Repetitive Reverse Voltage	$V_{RRM}$	V
Continuous Forward Current	$I_F$	mA
Power Dissipation	$P_D$	mW
Operating and Storage		
Junction Temperature	$T_J, T_{stg}$	${}^\circ\text{C}$
Thermal Resistance	$\Theta_{JA}$	${}^\circ\text{C/W}$

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

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
$I_R$	$V_R=50\text{V}$			10	nA
$BV_R$	$I_R=100\mu\text{A}$	60			V
$V_F$	$I_F=20\text{mA}$			1.0	V
$C_T$	$V_R=0\text{V}, f=1.0\text{MHz}$			5.0	pF
$t_{rr}$	$I_F=I_R=10\text{mA}, I_{rr}=1.0\text{mA}$			1000	ns

SOT-143 CASE - MECHANICAL OUTLINE



**LEAD CODE:**

- 1) (+) DC
- 2) AC
- 3) (-) DC
- 4) AC

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SYMBOL	DIMENSIONS			
	INCHES	MILLIMETERS	MIN	MAX
A	0.003	0.006	0.08	0.15
B	0.006	-	0.15	-
C	-	0.005	-	0.13
D	-	0.045	-	1.14
E	0.110	0.120	2.79	3.04
F	0.075	-	1.90	-
G	-	0.098	-	2.50
H	0.047	0.055	1.19	1.40
J	0.014	0.020	0.36	0.50
K	0.030	0.037	0.76	0.93
L	0.067	-	1.70	-

SOT-143 (REV: R2)

R2 (27-April 2006)