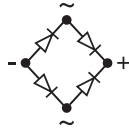


CMKBR-6F
SURFACE MOUNT
SILICON BRIDGE RECTIFIER

ULTRAmmini™



SOT-363 CASE

Central™

Semiconductor Corp.

FEATURES:

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

DESCRIPTION:

The Central Semiconductor CMKBR-6F is a monolithic silicon full wave bridge rectifier, epoxy molded in a SOT-363 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: CBR3

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

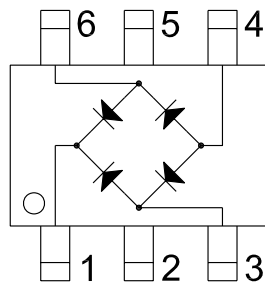
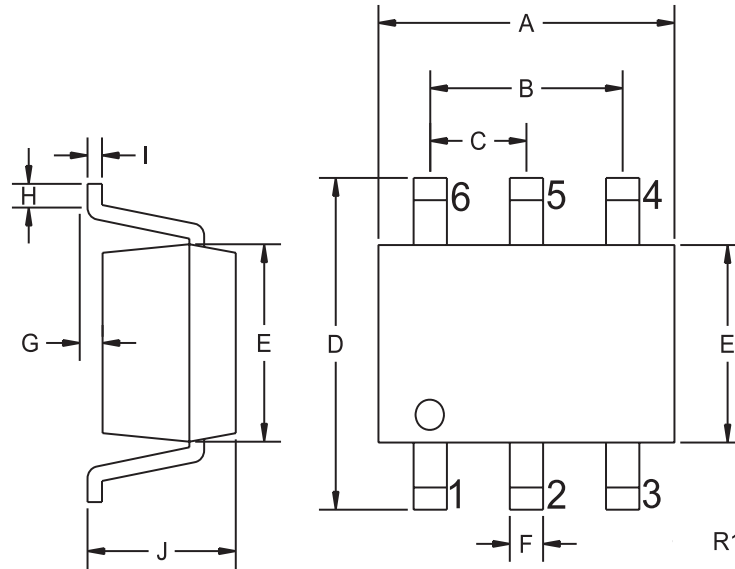
	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	60	V
Continuous Forward Current	I_F	140	mA
Power Dissipation	P_D	350	mW
Operating and Storage			
Junction Temperature	T_J, T_{stg}	-65 to +150	°C
Thermal Resistance	θ_{JA}	357	°C/W

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

**SURFACE MOUNT
SILICON BRIDGE RECTIFIER**

SOT-363 CASE - MECHANICAL OUTLINE



SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.073	0.085	1.85	2.15
B	0.051		1.30	
C	0.026		0.65	
D	0.075	0.091	1.90	2.30
E	0.043	0.055	1.10	1.40
F	0.006	0.012	0.15	0.30
G	0.000	0.004	0.00	0.10
H	0.010	-	0.25	-
I	0.004	0.010	0.10	0.25
J	0.031	0.039	0.80	1.00

SOT-363 (REV: R1)

LEAD CODE:

- 1) (+) DC
- 2) NC
- 3) AC
- 4) (-) DC
- 5) NC
- 6) AC

MARKING CODE: CBR3

R1 (27-April 2006)