CBAT54W
CBAT54AW
CBAT54CW
CBAT54SW

SURFACE MOUNT
SILICON SCHOTTKY DIODES

SUPERmini™



SOT-323 CASE

Central Semiconductor Corp.

www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CBAT54W Series types are Silicon Schottky Diodes in an SOT-323 Surface Mount Package.

CBAT54W:	SINGLE	**MARKING CODE: C4L**
CBAT54AW:	DUAL, COMMON ANODE	**MARKING CODE: C42**
CBAT54CW:	DUAL, COMMON CATHODE	**MARKING CODE: C4C**
CBAT54SW:	DUAL, IN SERIES	**MARKING CODE: C44**

MAXIMUM RATINGS: (T_A=25°C)	**SYMBOL**		**UNITS**
Continuous Reverse Voltage	V_R	30	V
Continuous Forward Current	I_F	200	mA
Peak Repetitive Forward Current	I_{FRM}	300	mA
Forward Surge Current, tp=10ms	I_{FSM}	600	mA
Power Dissipation	P_D	250	mW
Operating and Storage Junction Temperature	T_J, T_{stg}	-65 to +150	°C
Thermal Resistance	Θ_{JA}	500	°C/W

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

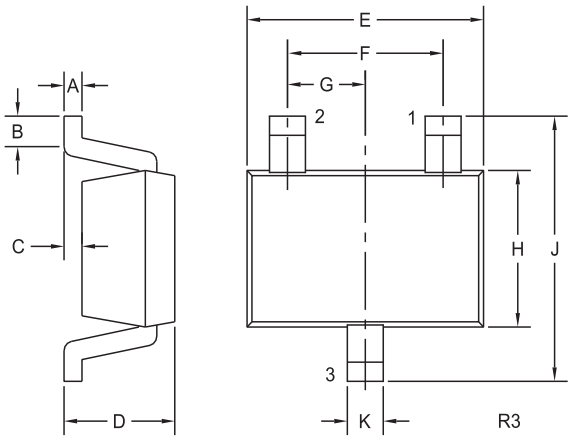
SYMBOL	**TEST CONDITIONS**	**MAX**	**UNITS**
I_R	V_R=25V	2.0	μA
V_F	I_F=0.1mA	240	mV
V_F	I_F=1.0mA	320	mV
V_F	I_F=10mA	400	mV
V_F	I_F=30mA	500	mV
V_F	I_F=100mA	800	mV
C_d	V_R=1.0V, f=1.0MHz	10	pF
t_{rr}	I_F=I_R=10mA, I_{rr}=1.0mA, R_L=100Ω	5.0	ns

R1 (4-January 2010)

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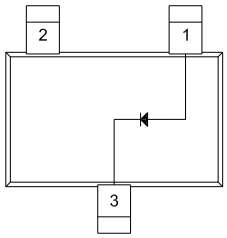
SURFACE MOUNT
SILICON SCHOTTKY DIODES

SOT-323 CASE - MECHANICAL OUTLINE



DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	MIN	MAX	MIN	MAX
A	0.002	0.008	0.05	0.20
B	0.004	-	0.10	-
C	-	0.004	-	0.10
D	0.031	0.043	0.80	1.10
E	0.071	0.087	1.80	2.20
F	0.051		1.30	
G	0.026		0.65	
H	0.045	0.053	1.15	1.35
J	0.079	0.087	2.00	2.20
K	0.008	0.016	0.20	0.40

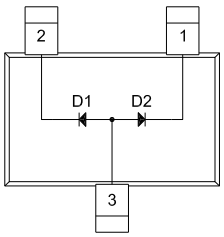
SOT-323 (REV: R3)



CBAT54W

LEAD CODE:
1) Anode
2) No Connection
3) Cathode

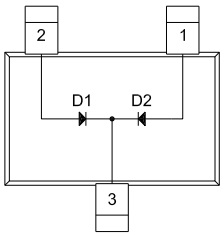
MARKING CODE: C4L



CBAT54AW

LEAD CODE:
1) Cathode D2
2) Cathode D1
3) Anode D1, D2

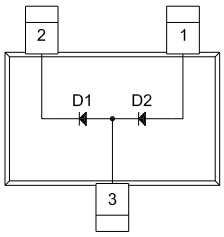
MARKING CODE: C42



CBAT54CW

LEAD CODE:
1) Anode D2
2) Anode D1
3) Cathode D1, D2

MARKING CODE: C4C



CBAT54SW

LEAD CODE:
1) Anode D2
2) Cathode D1
3) Anode D1, Cathode D2

MARKING CODE: C44

R1 (4-January 2010)