CBAT54
CBAT54A
CBAT54C
CBAT54S

SURFACE MOUNT
SILICON SCHOTTKY DIODES



SOT-23 CASE

Central Semiconductor Corp.

www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CBAT54 Series types are Silicon Schottky Diodes in an SOT-23 Surface Mount Package.

CBAT54:	SINGLE	**MARKING CODE: CL4**
CBAT54A:	DUAL, COMMON ANODE	**MARKING CODE: CL42**
CBAT54C:	DUAL, COMMON CATHODE	**MARKING CODE: CL43**
CBAT54S:	DUAL, IN SERIES	**MARKING CODE: CL44**

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	350	mW
Operating and Storage Junction Temperature	T_J, T_{stg}	-65 to +150	°C
Thermal Resistance	Θ_{JA}	357	°C/W

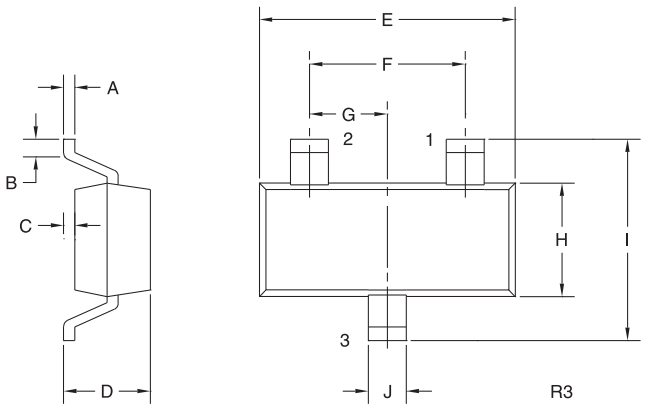
ELECTRICAL CHARACTERISTICS PER DIODE: (T_A=25°C unless otherwise noted)

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

CBAT54
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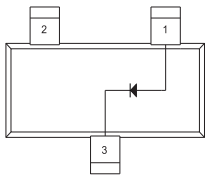
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SILICON SCHOTTKY DIODES

SOT-23 CASE - MECHANICAL OUTLINE



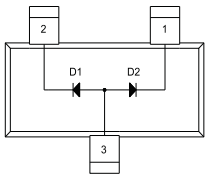
DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	MIN	MAX	MIN	MAX
A	0.003	0.007	0.08	0.18
B	0.006	-	0.15	-
C	-	0.005	-	0.13
D	0.035	0.043	0.89	1.09
E	0.110	0.120	2.80	3.05
F	0.075		1.90	
G	0.037		0.95	
H	0.047	0.055	1.19	1.40
I	0.083	0.098	2.10	2.49
J	0.014	0.020	0.35	0.50

SOT-23 (REV: R3)



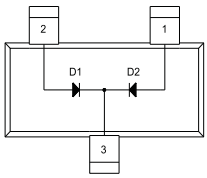
LEAD CODE:
CBAT54
1) Anode
2) No Connection
3) Cathode

MARKING CODE: CL4



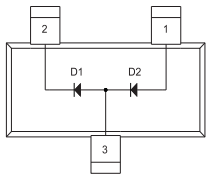
LEAD CODE:
CBAT54A
1) Cathode D2
2) Cathode D1
3) Anode D1, Anode D2

MARKING CODE: CL42



LEAD CODE:
CBAT54C
1) Anode D2
2) Anode D1
3) Cathode D1, Cathode D2

MARKING CODE: CL43



LEAD CODE:
CBAT54S
1) Anode D2
2) Cathode D1
3) Anode D1, Cathode D2

MARKING CODE: CL44