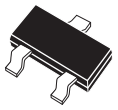
BCW67 SERIES
BCW68 SERIES

SURFACE MOUNT
PNP SILICON TRANSISTOR



SOT-23 CASE

Central™
Semiconductor Corp.

DESCRIPTION:

The CENTRAL SEMICONDUCTOR BCW67 and BCW68 Series types are PNP Silicon Transistors manufactured by the epitaxial planar process, epoxy molded in a surface mount package, designed for general purpose switching and amplifier applications.

MARKING CODE: PLEASE SEE MARKING CODE TABLE ON FOLLOWING PAGE

MAXIMUM RATINGS (T_A=25°C)

	SYMBOL	BCW67		BCW68	UNITS
Collector-Base Voltage	V_{CBO}	45		60	V
Collector-Emitter Voltage	V_{CEO}	32		45	V
Emitter-Base Voltage	V_{EBO}		5.0		V
Collector Current	I_C		800		mA
Peak Collector Current	I_{CM}		1.0		A
Base Current	I_B		100		mA
Peak Base Current	I_{BM}		200		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 (T_A=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I_{CBO}	V_{CB}=Rated V_{CEO}			20	nA
I_{CBO}	V_{CB}= Rated V_{CEO}, T_A=150°C			20	μA
I_{EBO}	V_{EB}=4.0V			20	nA
BV_{CBO}	I_C=10μA (BCW67)	45			V
BV_{CBO}	I_C=10μA (BCW68)	60			V
BV_{CEO}	I_C=10mA (BCW67)	32			V
BV_{CEO}	I_C=10mA (BCW68)	45			V
BV_{EBO}	I_E=10μA	5.0			V
$V_{CE(SAT)}$	I_C=100mA, I_B=10mA			0.3	V
$V_{CE(SAT)}$	I_C=500mA, I_B=50mA			0.7	V
$V_{BE(SAT)}$	I_C=100mA, I_B=10mA			1.25	V
$V_{BE(SAT)}$	I_C=500mA, I_B=50mA			2.0	V
f_T	V_{CE}=5.0V, I_C=50mA, f=20MHz		200		MHz
C_c	V_{CB}=10V, I_E=0, f=1.0MHz		6.0		pF
C_e	V_{EB}=0.5V, I_C=0, f=1.0MHz		60		pF

		BCW67A BCW68F		BCW67B BCW68G		BCW67C BCW68H	
		MIN	MAX	MIN	MAX	MIN	MAX
h_{FE}	V_{CE}=10V, I_C=100μA	35		50		80	
h_{FE}	V_{CE}=1.0V, I_C=10mA	75		120		180	
h_{FE}	V_{CE}=1.0V, I_C=100mA	100	250	160	400	250	630
h_{FE}	V_{CE}=2.0V, I_C=500mA	35		60		100	

R1 (20-February 2003)

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BCW67 SERIES
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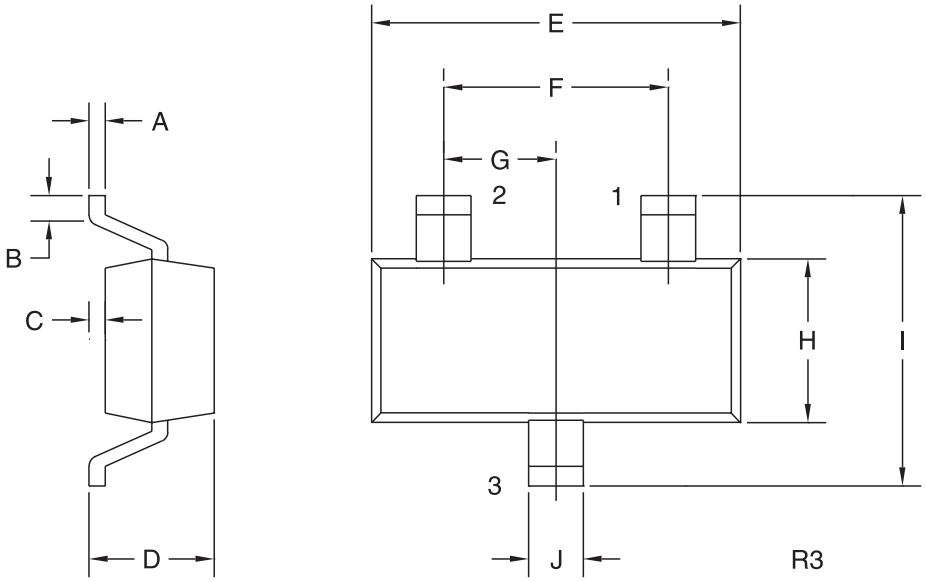
SURFACE MOUNT
PNP SILICON TRANSISTOR

SOT-23 CASE - MECHANICAL OUTLINE



LEAD CODE:
1) BASE
2) EMITTER
3) COLLECTOR

DEVICE	MARKING CODE
BCW67A	DA
BCW67B	DB
BCW67C	DC
BCW68F	DF
BCW68G	DG
BCW68H	DH

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)

R1 (20-February 2003)