BCW89

SURFACE MOUNT
PNP SILICON TRANSISTOR

SOT-23 CASE

Central Semiconductor Corp.

www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR BCW89 is a Silicon PNP Transistor manufactured by the epitaxial planar process, epoxy molded in a surface mount package, designed for general purpose applications.

MARKING CODE: H3

MAXIMUM RATINGS: (T_A=25°C)	**SYMBOL**		**UNITS**
Collector-Emitter Voltage	V_{CEO}	60	V
Collector-Emitter Voltage	V_{CES}	60	V
Emitter-Base Voltage	V_{EBO}	5.0	V
Continuous Collector Current	I_C	500	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**	**MAX**	**UNITS**
I_{CBO}	V_{CB}=20V		100	nA
I_{CBO}	V_{CB}=20V, T_A=100°C		10	µA
BV_{CBO}	I_C=10µA	80		V
BV_{CEO}	I_C=2.0mA	60		V
BV_{CES}	I_C=10µA	60		V
BV_{EBO}	I_C=10µA	5.0		V
$V_{CE(SAT)}$	I_C=10mA, I_B=0.5mA		300	mV
$V_{BE(ON)}$	V_{CE}=5.0V, I_C=2.0mA	600	750	mV
h_{FE}	V_{CE}=5.0V, I_C=2.0mA	120	260	
NF	V_{CE}=5.0V, I_C=200µA, R_S=2.0kΩ f=1.0kHz, B=200Hz		10	dB

R1 (20-November 2009)

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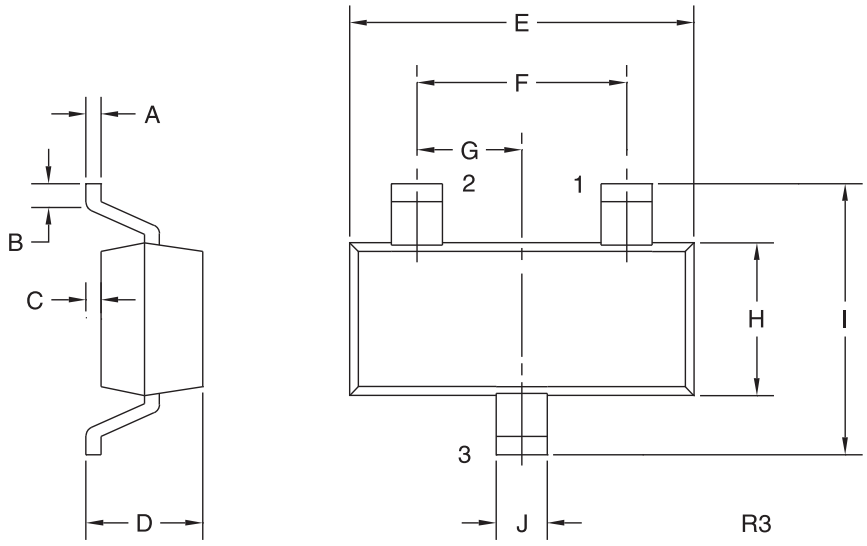
SOT-23 CASE - MECHANICAL OUTLINE



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

MARKING CODE: H3

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-November 2009)