



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Specification	Products	Type
		BCW71

1. SCOPE BCW71

1.1 Scope. This specification covers the detail requirements for one type NPN silicon epitaxial planar transistor designed for audio frequency small signal amplifier.

1.2 Physical dimensions. See figure 1.

1.3 Absolute maximum ratings. ($T_a=25\text{ }^\circ\text{C}$)

Collector to base voltage	V_{CBO}	50V
Collector to emitter voltage	V_{CEO}	45V
Emitter to base voltage	V_{EBO}	5V
Collector current	I_C	100mA
Power dissipation-Free Air	P_C	200mW
*Power dissipation-Ceramic Substrate	P_C	350mW
Junction temperature	T_j	150 $^\circ\text{C}$
Storage temperature range	T_{stg}	-65~150 $^\circ\text{C}$

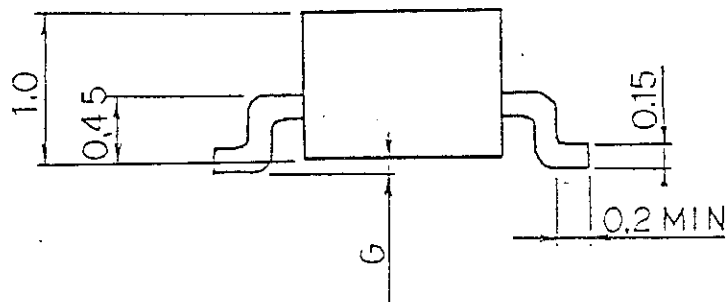
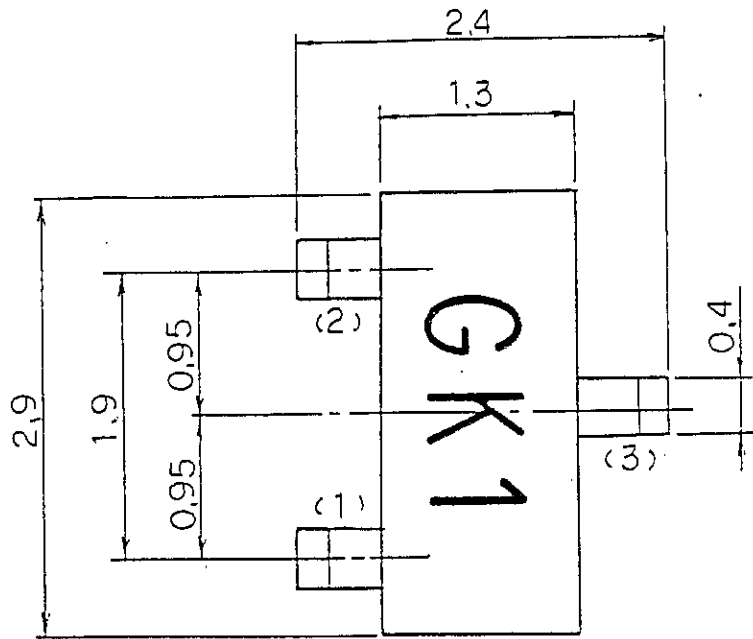
*Package mounted on ceramic 7×5×0.6mm

2. Electrical characteristics ($T_a=25\text{ }^\circ\text{C}$)

PARAMETER	TEST CONDITIONS	MIN	TYP	MAX	UNIT
BV_{CBO}	$I_C=50\text{ }\mu\text{A}$	50	—	—	V
BV_{CEO}	$I_C=2\text{mA}$	45	—	—	V
BV_{EBO}	$I_E=50\text{ }\mu\text{A}$	5	—	—	V
I_{CBO}	$V_{CB}=20\text{V}$	—	—	100	nA
$V_{CE}(\text{sat})$	$I_C=10\text{mA}$, $I_B=0.5\text{mA}$	—	—	0.25	V
$V_{BE}(\text{ON})$	$V_{CE}=5\text{V}$, $I_C=2\text{mA}$	0.55	—	0.7	V
h_{FE}	$V_{CE}=5\text{V}$, $I_C=2\text{mA}$	110	—	230	
C_{ob}	$V_{CB}=10\text{V}$, $f=1\text{MHz}$	—	—	4	pF
NF	$V_{CE}=5\text{V}$, $I_C=0.2\text{mA}$, $f=1\text{KHz}$ $R_s=2\text{k}\Omega$	—	—	10	dB
I_{CBO}	$V_{CB}=20\text{V}$, $T_a=100\text{ }^\circ\text{C}$	—	—	10	μA

MASTER

Specification	Products	Type
		BCW71



UNIT: mm
Low Profil G=0~0.1
High Profil G=0.1~0.25

- (1) Emitter
- (2) Base
- (3) Collector

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