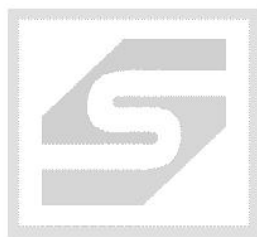
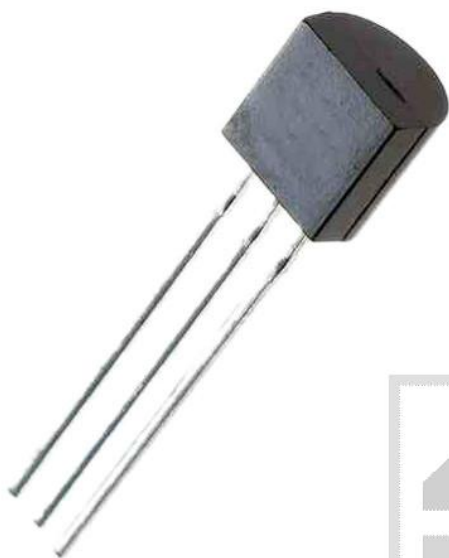




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TR BC560C;CDIL;TO92;tranzystor; PNP;uni.;60V;0.1A;0.5W;200MHz;RoHS



Dane techniczne:

Nazwa: BC560C

Typ tranzystora: bipolarny

Kierunek przewodnictwa: PNP

Prąd kolektora: 0.1A

Napięcie kolektor-emiter: 60V

Moc: 0.5W

Częstotliwość: 200MHz

Obudowa: TO92

Montaż: przewlekany (THT)

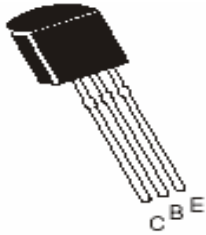
Producent: CDIL

www.podzespoly-elektroniczne.pl

Robert Stępień Hurtownia Części Elektronicznych; Adres: ul. Wolumen 2, pawilon 71; 01-912 Warszawa; tel.: 601 296 402 /
sklep@podzespoly-elektroniczne.pl

PNP SILICON EPITAXIAL PLANAR TRANSISTORS

BC556_BC560



TO-92
Plastic Package

For switching and AF amplifier application

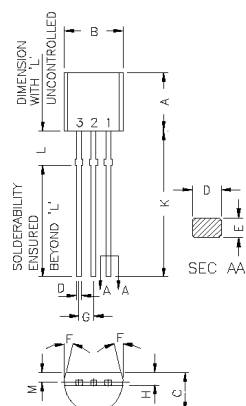
ABSOLUTE MAXIMUM RATINGS ($T_a=25^\circ\text{C}$ unless specified otherwise)

DESCRIPTION	SYMBOL	BC556	BC557	BC560	BC558	BC559	UNITS
Collector Base Voltage	V_{CBO}	80	50		30		V
Collector Emitter Voltage	V_{CEO}	65	45		30		V
Emitter Base Voltage	V_{EBO}			5			V
Collector Current (DC)	I_C			100			mA
Collector Current - Peak	I_{CM}			200			mA
Power Dissipation	P_{tot}			500			mW
Storage Temperature	T_{stg}			- 65 to +150			$^\circ\text{C}$
Junction Temperature	T_j			150			$^\circ\text{C}$

Characteristics at $T_a = 25^\circ\text{C}$

DESCRIPTION	SYMBOL	TEST CONDITION	MIN	MAX	UNITS
DC Current Gain	h_{FE}	$I_C=2\text{mA}, V_{CE}=5\text{V}$	75	800	
		A	110	220	-
		B	200	450	-
		C	420	800	-
Collector Emitter Saturation Voltage	$V_{CE(Sat)}$	$I_C=10\text{mA}, I_B=0.5\text{mA}$	-	0.30	V
		$I_C=100\text{mA}, I_B=5\text{mA}$	-	0.65	V
Base Emitter on Voltage	$V_{BE(on)}$	$I_C=2\text{mA}, V_{CE}=5\text{V}$	0.55	0.75	V
		$I_C=10\text{mA}, V_{CE}=5\text{V}$	-	0.82	V
Collector Base Cut off Current	I_{CBO}	$V_{CB}=30\text{V}, I_E=0$	-	15	nA
Emitter Base Cut off Current	I_{EBO}	$V_{EB}=5\text{V}$	-	100	nA
Collector Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C=100\mu\text{A}$	80	-	
			50	-	V
			30	-	
Collector Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=2\text{mA}$	65	-	
			45	-	V
			30	-	
Emitter Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E=100\mu\text{A}$	5	-	V
Transition Frequency	f_T		100	-	MHz
Collector Base Capacitance	C_{cb}	$V_{CB}=10\text{V}, f=1\text{MHz}$	-	6.0	pF

BC556_560Rev_6 231112E



DIM	MIN	MAX
A	4.30	5.33
B	4.10	5.20
C	3.10	4.19
D	0.35	0.55
E	0.29	0.55
F	8	DEG
G	1.14	1.40
H	1.00	1.80
K	11.50	—
L	1.982	2.082
M	1.03	1.53

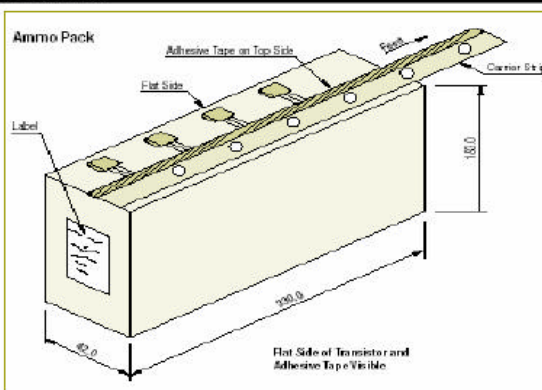
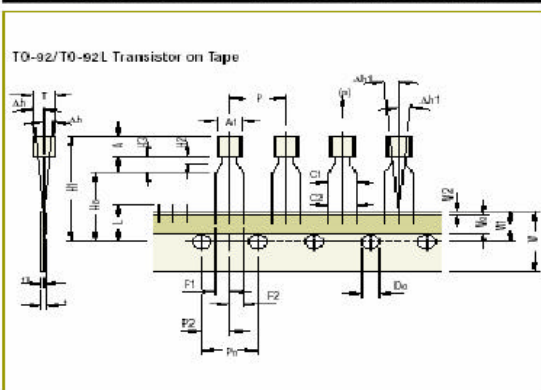
ALL DIMENSIONS ARE IN mm

Packaging Specifications ...

T & A: Tape and Ammo Pack; T & R: Tape and Reel; Bulk: Loose in Poly Bags; Tube: Tube and Carton; K: 1,000

Package / Case Type	Packaging Type	Std. Packing		Inner Carton		Outer Carton		
		Qty	Qty	Size L x W x H (cm)	Gross Weight (Kg)	Qty	Size L x W x H (cm)	Gross Weight (Kg)
TO-92	Bulk	1,000	5K	19 x 19 x 8	1.1	80K	43 x 40 x 35	20.0
	T & A	2,000	2K	32 x 4.5 x 20	0.7	40K	43 x 40 x 35	15.2

TO-92 and TO-92L Tape and Ammo Packaging



Tape Specifications

Item description	Symbol
Body width	A1
Body height	A
Body thickness	T
Pitch of component ^{S1}	P
Feed hole pitch ^{S1}	Po
Feed hole center to component center ^{S2}	P2
Comp. alignment, Side view ^{S3}	Dh
Comp. alignment, Front view ^{S3}	Dht
Tape width ^{S4}	W
Hold down tape width ^{S1}	Wo
Hole position	W1
Hold-down tape position	W2
Lead wire clinch height	He
Component height	H1
Length of snipped leads	L
Feed hole diameter ^{S4}	De
Total tape thickness ^{S4}	t
Lead-to-lead distance ^{S1}	F1, F2
Stand off	H2
Clinch height	H3
Lead parallelism ^{S1}	C1-C2
Pull-out force	(P)

TO-92	Min	Nom	Max	Tol
A1	4.45		5.20	
A	4.32		5.33	
T	3.18		4.19	
P		12.7		±1.0
Po		12.7		±0.3
P2		6.35		±0.4
Dh		0	1.0	
Dht		0	1.3	
W		18		±0.5
Wo		6		±0.2
W1		9		+0.7 -0.5
W2	0.0		0.7	
He		10		±0.5
H1			24.0	
L			11.0	
De		4		±0.2
t			1.2	
F1, F2	2.4		2.7	
H2	0.45		1.45	
H3			3.0	
C1-C2			0.22	
(P)	6N			

TO-92L	Min	Nom	Max	Tol
A1	4.7		5.1	
A	7.8		8.2	
T	3.7		4.1	
P		12.7		±0.3
Po		12.7		±0.2
P2		6.35		±0.3
Dh		0		±1.0
Dht		0		±1.0
W		18.0		+1.0 -0.5
Wo		6.0		±0.5
W1		9.0		±0.5
W2			1.0	
He		10.0		±0.5
H1			29.0	
L			11.0	
De		4.0		±0.2
t		0.2		±0.5
F1, F2	2.2		2.0	
H2	0.45		1.45	
H3			4.0	
C1-C2			0.22	
(P)	6N			

Taping Specification

- Maximum alignment deviation between leads not to be greater than 0.20 mm.
- Maximum non-cumulative variation between tape feed holes shall not exceed 1 mm in 20 pitches.
- Hold down tape not to exceed beyond the edge(s) carrier tape and there shall be no exposure of adhesive.
- No more than 3 consecutive missing components is permitted.
- A tape trailer, having at least three feed holes is required after the last component.
- Splices shall not interfere with the sprocket feed holes.

S1 Cumulative pitch error: 1.0 mm/20 pitches.

S2 To be measured at bottom of clinch.

S3 At top of body.

S4 t = 0.3 - 0.5 mm

C Critical Dimension.

Component Disposal Instructions

- 1. CDIL Semiconductor Devices are RoHS compliant, customers are requested to please dispose as per prevailing Environmental Legislation of their Country.**
- 2. In Europe, please dispose as per EU Directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE).**

Disclaimer

The product information and the selection guides facilitate selection of the CDIL's Semiconductor Device(s) best suited for application in your product(s) as per your requirement. It is recommended that you completely review our Data Sheet(s) so as to confirm that the Device(s) meet functionality parameters for your application. The information furnished in the Data Sheet and on the CDIL Web Site/CD is believed to be accurate and reliable. CDIL however, does not assume responsibility for inaccuracies or incomplete information. Furthermore, CDIL does not assume liability whatsoever, arising out of the application or use of any CDIL product; neither does it convey any license under its patent rights nor rights of others. These products are not designed for use in life saving/support appliances or systems. CDIL customers selling these products (either as individual Semiconductor Devices or incorporated in their end products), in any life saving/support appliances or systems or applications do so at their own risk and CDIL will not be responsible for any damages resulting from such sale(s).

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