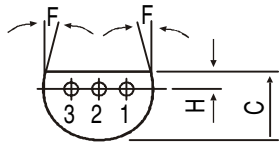
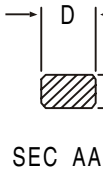
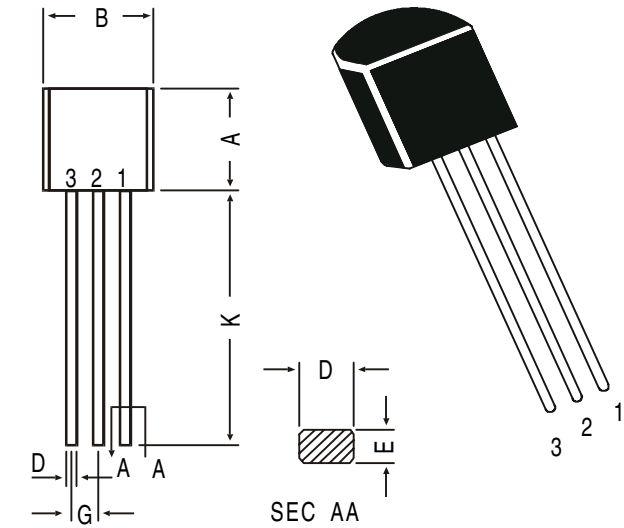


ELECTRICAL CHARACTERISTICS (Ta=25 deg C Unless Otherwise Specified)

BC546-BC548

DESCRIPTION	SYMBOL	TEST CONDITION		VALUE	UNITS
DC Current Gain	hFE	IC=10uA, VCE=5V	A	typ90	
			B	typ150	
			C	typ270	
		IC=2mA, VCE=5V	BC546	110-450	
			BC547,8	110-800	
			A	110-220	
			B	200-450	
			C	420-800	
			IC=100mA, VCE=5V	A	typ120
		B		typ200	
C	typ400				
Collector Emitter Saturation Voltage	VCE(Sat)	IC=10mA, IB=0.5mA		<0.25	V
		IC=100mA, IB=5mA		<0.60	V
Base Emitter Saturation Voltage	VBE(Sat)	IC=10mA, IB=0.5mA		typ0.70	V
		IC=100mA, IB=5mA		typ0.90	V
Base Emitter on Voltage	VBE(on)	IC=2mA, VCE=5V		0.55-0.70	V
		IC=10mA, VCE=5V		<0.72	V
<u>DYNAMIC CHARACTERISTICS</u>					
Transistors Frequency	ft	IC=10mA, VCE=5V f=100MHz		typ300	MHz
Collector Out-Put Capacitance	Ccbo	VCB=10V, f=1MHz		<4.50	pF
Emitter Input Capacitance	Cib	VEB=0.5V, f=1MHz		typ9.0	pF
Noise Figure	NF	IC=0.2mA, VCE=5V Rs=1kohm, f=1kHz B=200Hz		<10	dB
Small Signal Current Gain	hfe	ALL f=1KHz IC=2mA, VCE=5V	A	typ220	
			B	typ330	
			C	typ600	
Input Impedance	hie	IC=2mA, VCE=5V	A	1.6-4.5	khoms
			B	3.2-8.5	
			C	6.0-15	
Voltage Feedback Ratio	hre	IC=2mA, VCE=5V	A	typ1.5	X'10-4
			B	typ2.0	
			C	typ3.0	
Out put Adimttance	hoe	IC=2mA, VCE=5V	A	<30	umhos
			B	<60	
			C	<110	

TO-92 Plastic Package



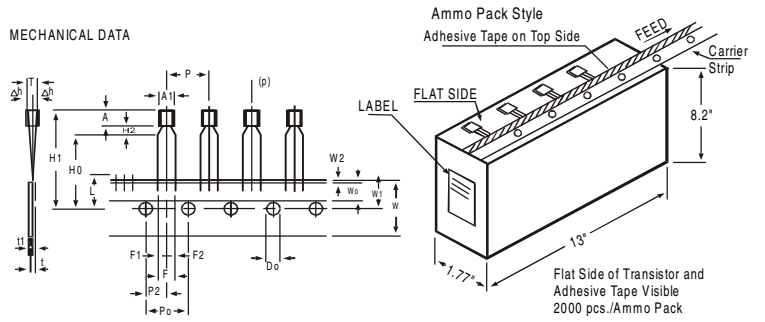
PIN CONFIGURATION

1. EMITTER
2. BASE
3. COLLECTOR

All dimensions in mm.

DIM	MIN.	MAX.
A	4.32	5.33
B	4.45	5.20
C	3.18	4.19
D	0.41	0.55
E	0.35	0.50
F	5 DEG	
G	1.14	1.40
H	1.14	1.53
K	12.70	—

TO-92 Transistors on Tape and Ammo Pack



All dimensions in mm unless specified otherwise

ITEM	SYMBOL	SPECIFICATION			REMARKS
		MIN.	NOM.	MAX. TOL.	
BODY WIDTH	A1	4.0	4.8		
BODY HEIGHT	A	4.8	5.2		
BODY THICKNESS	T	3.9	4.2		
PITCH OF COMPONENT	P		12.7		±1
FEED HOLE PITCH	Po		12.7		±0.3
FEED HOLE CENTRE TO COMPONENT CENTRE	P2		6.35		±0.4
DISTANCE BETWEEN OUTER LEADS	F	5.08			+0.6 -0.2
COMPONENT ALIGNMENT	Δh	0	1		AT TOP OF BODY
TAPE WIDTH	W	18			±0.5
HOLD-DOWN TAPE WIDTH	W0	6			±0.2
HOLE POSITION	W1	9			+0.7 -0.5
HOLD-DOWN TAPE POSITION	W2	0.5			±0.2
LEAD WIRE CLINCH HEIGHT	Ho	16			±0.5
COMPONENT HEIGHT	H1		23.25		
LENGTH OF SNIPPED LEADS	L		11.0		
FEED HOLE DIAMETER	Do		4		±0.2
TOTAL TAPE THICKNESS	t		1.2		t1 0.3 - 0.6
LEAD - TO - LEAD DISTANCE F1,	F2	2.54			+0.4 -0.1
CLINCH HEIGHT	H2		3		
PULL - OUT FORCE	(P)	6N			

NOTES

1. MAXIMUM ALIGNMENT DEVIATION BETWEEN LEADS NOT TO BE GREATER THAN 0.2 mm.
2. MAXIMUM NON-CUMULATIVE VARIATION BETWEEN TAPE FEED HOLES SHALL NOT EXCEED 1 mm IN 20 PITCHES.
3. HOLDDOWN TAPE NOT TO EXCEED BEYOND THE EDGE(S) OF CARRIER TAPE AND THERE SHALL BE NO EXPOSURE OF ADHESIVE.
4. NO MORE THAN 3 CONSECUTIVE MISSING COMPONENTS ARE PERMITTED.
5. A TAPE TRAILER, HAVING AT LEAST THREE FEED HOLES ARE REQUIRED AFTER THE LAST COMPONENT.
6. SPLICES SHALL NOT INTERFERE WITH THE SPROCKET FEED HOLES.

Packing Detail

PACKAGE	STANDARD PACK		INNER CARTON BOX		OUTER CARTON BOX		
	Details	Net Weight/Qty	Size	Qty	Size	Qty	Gr Wt
TO-92 Bulk	1K/polybag	200 gm/1K pcs	3" x 7.5" x 7.5"	5.0K	17" x 15" x 13.5"	80.0K	23 kgs
TO-92 T&A	2K/ammo box	645 gm/2K pcs	12.5" x 8" x 1.8"	2.0K	17" x 15" x 13.5"	32.0K	12.5 kgs

Notes

Disclaimer

The product information and the selection guides facilitate selection of the CDIL's Discrete 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 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 Discrete 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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