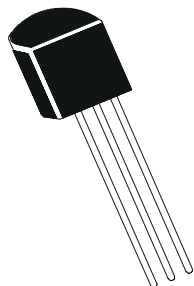


PNP EPITAXIAL PLANAR SILICON TRANSISTOR



**CSA952
(9AW)
TO-92
BCE**

MARKING : AS BELOW

**Audio Frequency Power Amplifier.
Complementary CSC2001**

ABSOLUTE MAXIMUM RATINGS(Ta=25deg C unless otherwise specified)

DESCRIPTION	SYMBOL	VALUE	UNIT
Collector -Base Voltage	BVCBO	30	V
Collector Emitter Voltage	BVCEO	25	V
Emitter Base Voltage	BVEBO	5.0	V
Collector Current (DC)	IC	700	mA
Collector Current (Peak)	ICP**	1.0	A
Collector Power Dissipation	Ptot	600	mW
Operating And Storage Junction Temperature Range	Tj, Tstg	-55 to +150	deg C

****PW=10ms, duty cycle=50%**

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

DESCRIPTION	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Collector Cut off Current	ICBO	VCB=30V, IE=0	-	-	100	nA
	ICEO	VCE=25V, IB=0	-	-	1.0	uA
Emitter Cut off Current	IEBO	VEB=5V, IC=0	-	-	100	nA
DC Current Gain	hFE (1)	VCE=1V, IC=100mA*	90	-	400	
	hFE (2)	VCE=1V, IC=700mA*	50	-	-	
Base Emitter Voltage	VBE(on)	IC=10mA, VCE=6V*	0.6	-	0.7	V
Collector Emitter Saturation Voltage	VCE(Sat)	IC=700mA, IB=70mA*	-	-	0.6	V
Base Emitter Saturation Voltage	VBE(Sat)	IC=700mA, IB=70mA*	-	-	1.2	V

Dynamic Characteristics

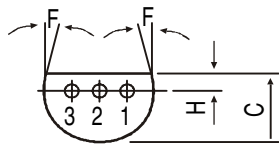
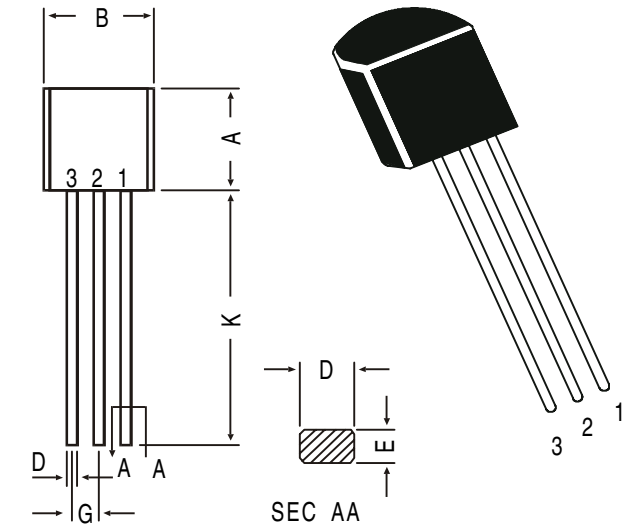
Transition Frequency	ft	VCE=6V, IC=10mA,	50	-	-	MHz
Collector Output Capacitance	Cob	VCB=6V, IE=0 f=1MHz	-	-	40	pF

hFE(1) Classification : M : 90-180; L : 135-270; K : 200-400

Marking	CSA	CSA	CSA
	952	952	952
	M	L	K

***PW=350us, duty cycle=2% pulsed**

TO-92 Plastic Package



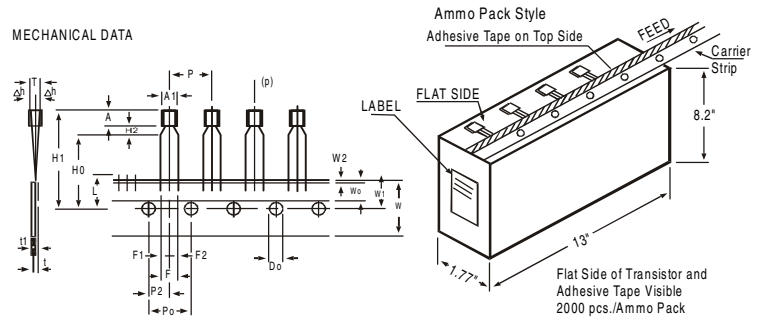
PIN CONFIGURATION

1. BASE
2. COLLECTOR
3. EMITTER

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		CUMULATIVE PITCH ERROR 1.0 mm/20 PITCH
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	TO BE MEASURED AT BOTTOM OF CLINCH
DISTANCE BETWEEN OUTER LEADS	F	5.08			+0.6 -0.2	AT TOP OF BODY
COMPONENT ALIGNMENT	Δh	0		1		
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	t1 0.3 - 0.6
LEAD WIRE CLINCH HEIGHT	H0		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		
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

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