





PNP SILICON TRANSISTORS

-CB

CSA984K

TO-92 Plastic Package

AUDIO FREQUENCY GENERAL PURPOSE POWER AMPLIFIER APPLICATION

COMPLEMENTARY CSC2274K

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

DESCRIPTION	SYMBOL	VALUE	UNITS
Collector Emitter Voltage	BV _{CEO}	80	V
Collector Base Voltage	BV _{CBO}	100	V
Emitter Base Voltage	BV _{EBO}	5	V
Collector Current Continuous	I _C	500	mA
Peak	I _{CM}	800	mA
Collector Power Dissipation	P _C	600	mW
Operating And Storage Junction Temperature Range	T_{j},T_{stg}	-55 to +150	°C

ELECTRICAL CHARACTERISTICS (Ta=25°C unless specified otherwise)

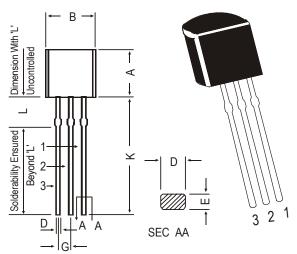
DESCRIPTION	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNITS	
Collector Emitter Breakdown Voltage	BV_CEO	$I_C=1mA,I_B=0$	80			V	
Collector Base Breakdown Voltage	BV_{CBO}	$I_{C}=10\mu A, I_{B}=0$	100			V	
Emitter Base Breakdown Voltage	BV _{EBO}	$I_E=10\mu A, I_C=0$	5			V	
Collector Cutoff Current	I _{CBO}	V _{CB} =40V, I _E =0			1.0	μΑ	
Emitter Base Breakdown Voltage	I _{EBO}	V_{EB} =4V, I_{C} =0			1.0	μΑ	
DC Current Gain	h _{FE (1)}	V_{CE} =5 V , I_{C} =50 mA	60		320		
	h _{FE (2)}	V_{CE} =5 V , I_{C} =400 m A	35				
Base Emitter Satruation Voltage	V _{BE(sat)}	I _C =400mA,I _B =40mA		0.9	1.2	V	
Collector Emitter Saturation Voltage	$V_{CE(sat)}$	I _C =400mA,I _B =40mA		0.25	0.6	V	
DYNAMIC CHARACTERISTICS							
Transition Frequency	f _T	I _E =10mA, V _{CE} =10V		120		MHz	
Collector Output Capacitance	C _{ob}	I _E =0, V _{CB} =10V					
CSA984K		f=1MHz		9		pF	
CSC2274K				5		pF	

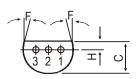
h _{FE (1)} 60-120 100-200 160-320	CLASSIFICATION	D	Е	F
	h _{FE (1)}	60-120	100-200	160-320

TO-92 **Plastic Package**

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TO-92 Transistors on Tape and Ammo Pack



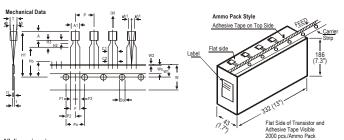


PIN CONFIGURATION

- 1. BASE
- 2. COLLECTOR
- 3. EMITTER

DIM	MIN.	MAX.		
Α	4.32	5.33		
В	4.45	5.20		
С	3.18	4.19		
D	0.41	0.55		
Е	0.35	0.50		
F	5 D	EG		
G	1.14	1.40		
Н	1.14	1.53		
K	12.70	_		
L	1.982	2.082		

All diminsions in mm.



	nsior	

		SPECIFICATION				
ITEM	SYMBOL	MIN.	NOM.	MAX.	TOL.	REMARKS
BODY WIDTH	A1	4.0		4.8		
BODY HEIGHT	Α	4.8		5.2		
BODY THICKNESS	Т	3.9		4.2		
PITCH OF COMPONENT	Р		12.7		± 1.0	
FEED HOLE PITCH	Po		12.7		± 0.3	CUMULATIVE PITCH ERROR 1.0 mm/20 PITCH
FEED HOLE CENTRE TO						
COMPONENT CENTRE	P2		6.35		± 0.4	TO BE MEASURED AT BOTTOM OF CLINCH
DISTANCE BETWEEN OUTER					+0.6	
LEADS	F		5.08		-0.0	
COMPONENT ALIGNMENT SIDE VIEW	Δh		0	1.0	- 0.2	AT TOP OF BODY
COMPONENT ALIGNMENT FRONT VIEW	∆h1		0	1.3		AT TOP OF BODY
TAPE WIDTH	W		18		± 0.5	
HOLD-DOWN TAPE WIDTH	Wo		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	
STAND OFF	H2	0.45		1.45	- 0.1	
CLINCH HEIGHT	H3			3.0		
LEAD PARALLELISM	C1 - C2			0.22		
PULL - OUT FORCE	(P)	6N				

- NOTES

 1. Maximum alignment deviation between leads will not to be greater than 0.2mm.

 2. Maximum non-cumulative variation between tape feed holes shall not exceed 1 mm in 20 pitches.

 3. Holddown tape will not exceed beyond the edge(s) of carrier tape and there shall be no exposure of adhesive.

 4. There will be no more than three (3) consecutive missing components in a tape.

 5. A taper taller, having at least three feed holes are provided after the last component in a tape.

 6. Splices should not interfere with the sprocket feed holes.

Packing Detail

PACKAGE	STANDARD PACK		INNER CARTO	ON 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"	5K	17" x 15" x 13.5"	80K	23 kgs
TO-92 T&A	2K/ammo box	645 gm/2K pcs	12.5" x 8" x 1.8"	2K	17" x 15" x 13.5"	32K	12.5 kgs

Notes CSA984K

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Disclaimer

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