

Continental Device India Limited

An ISO/TS16949 and ISO 9001 Certified Company



PNP_SILICON TRANSISTORS



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	Ι _C	500	mA
Peak	I _{CM}	800	mA
Collector Power Dissipation	Pc	600	mW
Operating And Storage Junction Temperature Range	T_{j},T_{stg}	-55 to +150	°C

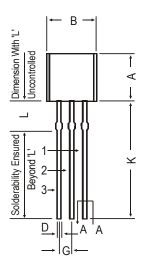
ELECTRICAL CHARACTERISTICS (Ta=25°C unless specified otherwise)

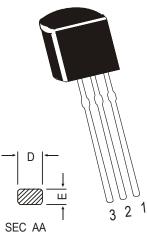
DESCRIPTION	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNITS
Collector Emitter Breakdown Voltage	BV_{CEO}	I _C =1mA,I _B =0	80			V
Collector Base Breakdown Voltage	BV_{CBO}	I _C =10μA,I _B =0	100			V
Emitter Base Breakdown Voltage	BV_{EBO}	I _E =10μΑ, I _C =0	5			V
Collector Cutoff Current	I _{CBO}	V _{CB} =40V, I _E =0			1.0	μA
Emitter Base Breakdown Voltage	I _{EBO}	V _{EB} =4V, I _C =0			1.0	μΑ
DC Current Gain	h _{FE (1)}	V _{CE} =5V,I _C =50mA	60		320	
	h _{FE (2)}	V _{CE} =5V,I _C =400mA	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

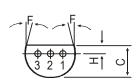
CLASSIFICATION	D	E	F
h _{FE (1)}	60-120	100-200	160-320

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

PIN CONFIGURATION

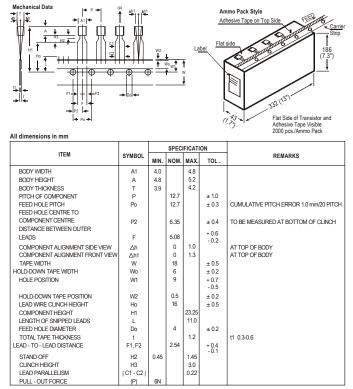
1. BASE

2. COLLECTOR

3. EMITTER

All diminsions in mm.

TO-92 Transistors on Tape and Ammo Pack



NOTES

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/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 tape trainer, 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 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"	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

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Disclaimer

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CDIL is a registered Trademark of Continental Device India Limited C-120 Naraina Industrial Area, New Delhi 110 028, India. Telephone + 91-11-2579 6150, 5141 1112 Fax + 91-11-2579 5290, 5141 1119 email@cdil.com www.cdilsemi.com

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