

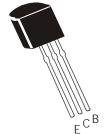
Continental Device India Limited

An ISO/TS 16949 and ISO 9001 Certified Company



NPN SILICON PLANAR EPITAXIAL TRANSISTOR

CSC2482



TO-92 Plastic Package

High Voltage Switching and Amplifier Applications CTV Horizontal Driver and Chroma Output Applications

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

DESCRIPTION	SYMBOL	VALUE	UNITS V		
Collector Emitter Voltage	V _{CEO}	300			
Collector Base Voltage	V _{CBO}	300	V		
Emitter Base Voltage	V _{EBO}	7	V		
Collector Current	I _C	100	mA		
Base Current	I _B	50	mA		
Collector Power Dissipation	P _C	900	mW		
Storage Temperature	T _{stg}	- 55 to +150	°C		
Junction Temperature	T _j	150	°C		

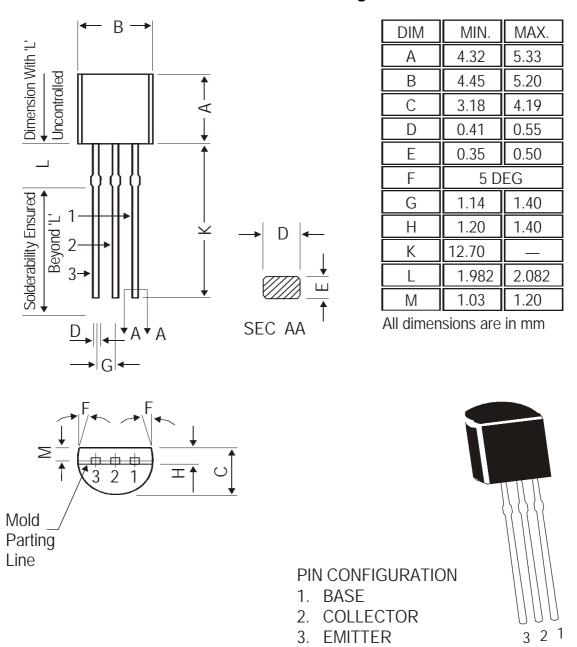
ABSOLUTE MAXIMUM RATINGS(T_a=25°C unless specified otherwise)

DESCRIPTION	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNITS
Collector Cut Off Current	I _{CBO}	$V_{CB}=240V, I_{E}=0$			1.0	μΑ
Emitter Cut Off Current	I _{EBO}	$V_{EB}=7V$, $I_C=0$			1.0	μΑ
DC Current Gain	h _{FE}	V _{CE} =10V, I _C =4mA	20			
		V_{CE} =10V, I_{C} =20mA	30		150	
Collector Emitter Saturation Voltage	V _{CE (sat)}	I _C =10mA, I _B =1mA			1.0	V
Base Emitter Saturation Voltage	V _{BE (sat)}	I _C =10mA, I _B =1mA			1.0	V
Transition Frequency	f _T	V_{CE} =10V, I_{C} =20mA	50			MHz
Collector Output Capacitance	C _{Ob}	V_{CB} =20V, I_E =0, f=1MHz		3.0		pF

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The TO-92 Package, Tape and Ammo Pack Drawings are correct as on the date of issue/revision of this Data Sheet.

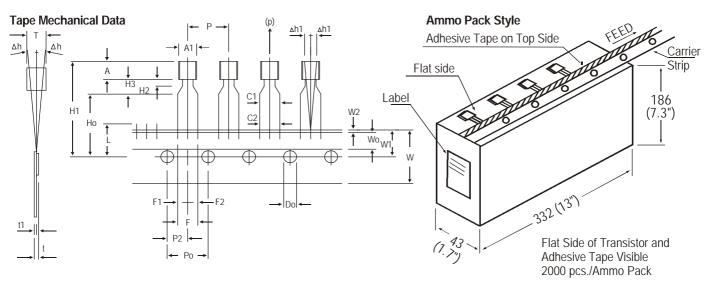
The currently valid dimensions and information, may please be confirmed from the TO-92 Drawing in the Packages and Packing Section of the Product Catalogue.

Packing Details

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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TO-92 Tape and Ammo Pack



All dimensions are in mm

ITTA.	SYMBOL	SPECIFICATION				
ITEM		MIN.	NOM.	MAX.	TOL.	
BODY WIDTH	A1	4.0		4.8		
BODY HEIGHT	А	4.8		5.2		
BODY THICKNESS	Т	3.9		4.2		
PITCH OF COMPONENT	Р		12.7		± 1.0	
*1FEED HOLE PITCH	Po		12.7		± 0.3	
*2 FEED HOLE CENTRE TO COMPONENT CENTRE	P2		6.35		± 0.4	
DISTANCE BETWEEN OUTER LEADS	F		5.08		+ 0.6 - 0.2	
*3 COMPONENT ALIGNMENT SIDE VIEW	∆h		0	1.0		
*4 COMPONENT ALIGNMENT FRONT VIEW	 ∆h1		0	1.3		
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	Но		16		± 0.5	
COMPONENT HEIGHT	H1			23.25		
LENGTH OF SNIPPED LEADS	L			11.0		
FEED HOLE DIAMETER	Do		4		± 0.2	
*5 TOTAL TAPE THICKNESS	t			1.2		
LEAD - TO - LEAD DISTANCE	F1, F2		2.54		+ 0.4	
STAND OFF	H2	0.45		1.45	- 0.1	
CLINCH HEIGHT	H3	0.10		3.0		
LEAD PARALLELISM	C1 - C2			0.22		
PULL - OUT FORCE	(p)	6N		0.22		

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 tape trailer, 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.

REMARKS

- *1 Cumulative pitch error 1.0 mm/20 pitch
- *2 To be measured at bottom of clinch
- *3 At top of body
- *4 At top of body
- *5 t1 0.3 0.6 mm

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Notes CSC2482

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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 in the Data Sheet and on the CDIL Web Site/CD are 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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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