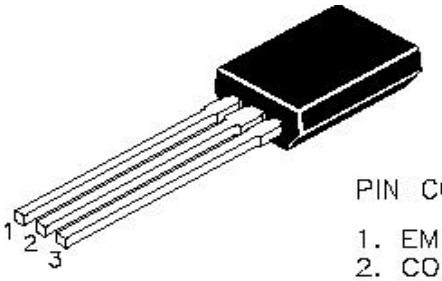
RECTRON SEMICONDUCTOR
TECHNICAL SPECIFICATION

CSCL2482

TO-92 Plastic Package
NPN SILICON PLANAR EPITAXIAL TRANSISTOR

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



PIN CONFIGURATION:–

1. EMITTER
2. COLLECTOR
3. BASE

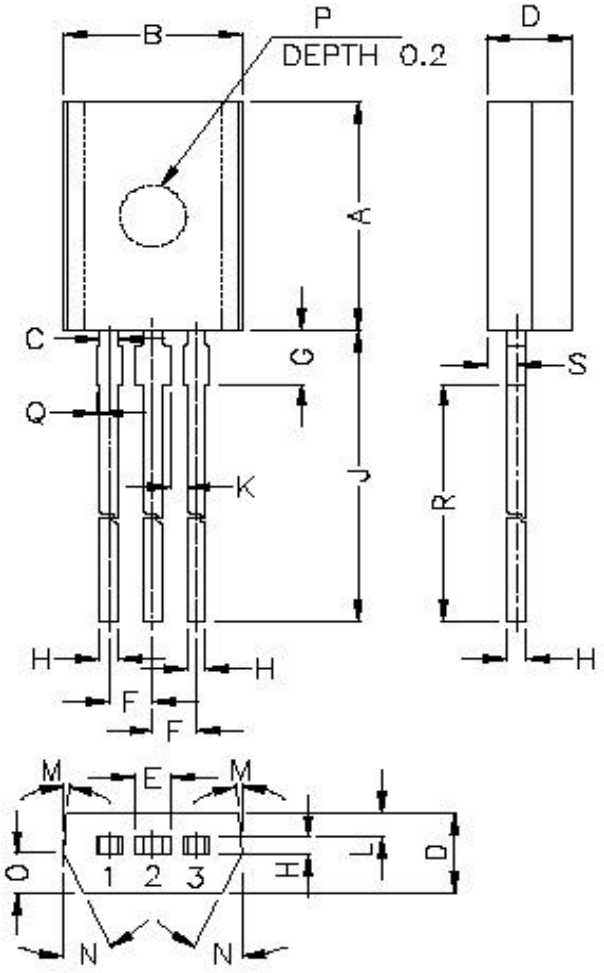
ABSOLUTE MAXIMUM RATINGS (T_a=25ºC unless specified otherwise)

DESCRIPTION	SYMBOL	VALUE	UNITS
Collector Emitter Voltage	V_{CEO}	300	V
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	ºC
Junction Temperature	T_j	150	ºC

ABSOLUTE MAXIMUM RATINGS(T_a=25ºC 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	µA
Emitter Cut Off Current	I_{EBO}	V_{EB}=7V, I_C = 0			1.0	µA
DC Current Gain	h_{FE}	V_{CE}=10V, I_C=4mA V_{CE}=10V, I_C=20mA	20 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

PACKAGE TO-92L



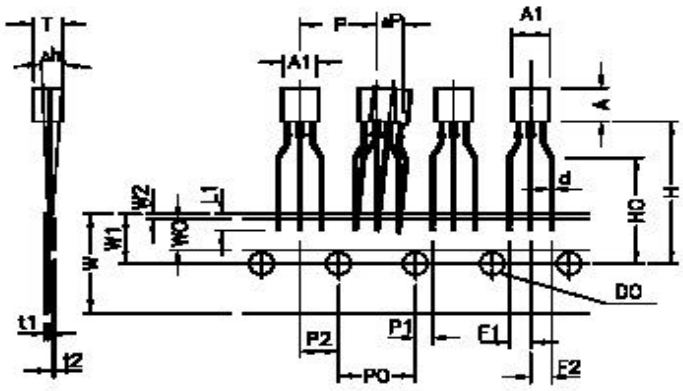
DIMENSIONS			
REF DIM	MIN	NOM	MAX
A	–	–	7.20
B	–	–	5.20
C	–	–	0.60
D	–	–	2.50
E	–	–	1.15
F	–	1.27	–
G	–	–	1.70
H	–	–	0.55
J	13.50	–	14.50
K	0.35	–	–
L	0.65	–	0.85
M	–	4°	–
N	–	25°	–
O	–	1.25	–
P	–	ø1.50	–
Q	–	–	0.10
R	12.00	–	13.00
S	–	1.00	–

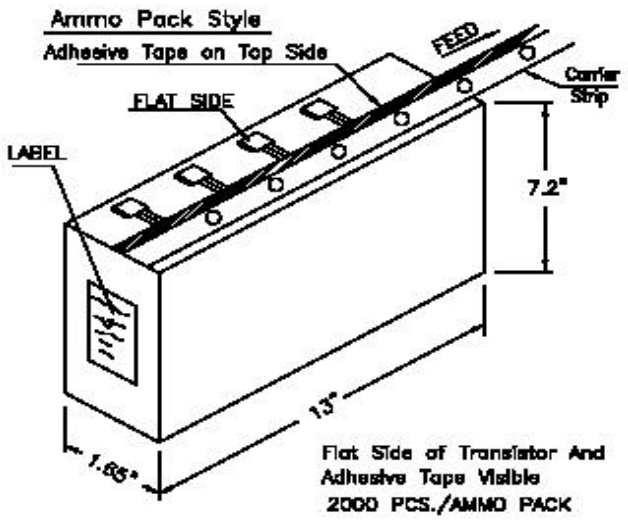
ALL DIMENSIONS ARE IN M.M.

PIN CONFIGURATION:–

1. EMITTER
2. COLLECTOR
3. BASE

TO-92L TRANSISTOR ON TAPE AND AMMO PACK





Flat Side of Translator And Adhesive Tape Visible
2000 PCS./AMMO PACK

ITEM	SYMBOL	VALUE & TOLERANCE
BODY WIDTH	A1	4.9 ±0.2
BODY HEIGHT	A	8.0 ±0.2
BODY THICKNESS	T	3.9 ±0.2
LEAD WIRE DIAMETER	d	0.45 ±0.05
PITCH OF COMPONENT	P	12.7 ±0.3
FEED HOLE PITCH	P0	12.7 ±0.2
HOLE CENTER TO COMPONENT CENTER	P2	6.35 ±0.3
LEAD TO LEAD DISTANCE	F1,F2	2.5 ±0.3
COMPONENT ALIGNMENT,F-R	Δh	0 ±1.0
TYPE WIDTH	W	18.0 +1.0,-0.5
HOLE DOWN TAPE WIDTH	W0	6.0 ±0.5
HOLE POSITION	W1	9.0 ±0.5
HOLE DOWN TAPE POSITION	W2	1.0 MAX.
HEIGHT OF COMPONENT FROM TAPE CENTER	H	19.0 +2.0,-0
LEAD WIRE CLINCH HEIGHT	H0	16.0 ±0.5
LEAD WIRE (TAPE PORTION)	L1	2.5 MIN
FEED HOLE DIAMETER	D0	4.0 ±0.2
TAPED LEAD THICKNESS	t1	0.4 ±0.05
CARRIER TAPE THICKNESS	t2	0.2 ±0.05
POSITION OF HOLE	P1	3.85 ±0.3
COMPONENT ALIGNMENT	ΔP	0 ±1.0

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 IS PERMITTED.
5. A TAPE TRAILER, HAVING AT LEAST THREE FEED HOLES IS REQUIRED AFTER THE LAST COMPONENT.
6. SPLICES SHALL NOT INTERFERE WITH THE SPROCKET FEED HOLES.

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