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NPN EPITAXIAL SILICON PLANAR TRANSISTOR

CSC 1740



TO-92 Plastic Package

General Small Signal Amplifier

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

DESCRIPTION	SYMBOL	VALUE	UNIT V	
Collector Emitter Voltage	BV _{CEO}	50(ORS)		
		40(E)		
Collector Base Voltage	BV_CBO	60(ORS)	V	
		50(E)		
Emitter Base Voltage	BV _{EBO}	5	V	
Collector Current (DC)	Ic	150	mA	
Collector Power Dissipation	Pc 18G.CU	300	mW	
Operating And Storage Junction T _i , T _{stq}		-55 to +150	°C	
Temperature Range				

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

O:120-270

DESCRIPTION	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Collector Emitter Voltage	V_{CEO}	$I_C=1mA,I_B=0$	50(ORS)	WW.	OT	V
			40(E)			V
Collector Base Voltage	V _{CBO}	$I_{C} = 50 \mu A, I_{E} = 0$	60(ORS)			V
			50(E)			V
Emitter Base Voltage	V_{EBO}	I_{E} =50 μ A, I_{C} =0	5			
Collector Cut off Current	I_{CBO}	$V_{CB} = 30V, I_{E} = 0$			0.5	μΑ
Emitter Cut off Current	I_{EBO}	V_{BE} =4 V , I_{C} = 0			0.5	μΑ
DC Current Gain	h_{FE}	V_{CE} =6 V , I_{C} =0.1 mA	120		820	μΑ
Collector Emitter Saturation	$V_{CE(sat)}$	$I_C=50\text{mA}, I_B=5.0\text{mA}$			0.4	V
Voltage						
DYNAMIC CHARACTERISTICS						
Transition Frequency	IMM L	I _C =2.0mA, V _{CE} =12V		180		MHz
		f=100MHz				
Collecto <mark>r Outpu</mark> t Capacitance	C_ob	I_E =0, V_{CB} =12 V			3.5	pF
		f=1MHz				
00-						

R: 180-390

S: 270-560

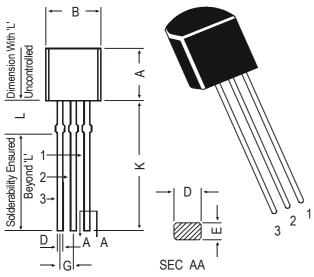
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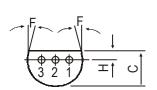


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TO-92 Transistors on Tape and Ammo Pack



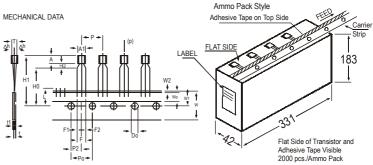


PIN CONFIGURATION

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

EC AA					
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 DEG				
G	1.14	1.40			
Н	1.14	1.53			
K	12.70	_			
L	1.982	2.082			

All diminsions in mm.



All dimensions in mm unless specified otherwise

ITEM		SPECIFICATION			DE144.B//0	
ITEM	SYMBOL	MIN.	NOM.	MAX.	TOL .	REMARKS
BODY WIDTH BODY HEIGHT BODY THICKNESS	A1 A T	4.0 4.8 3.9		4.8 5.2 4.2		
PITCH OF COMPONENT FEED HOLE PITCH	P Po	0.0	12.7 12.7		±1 ±0.3	CUMULATIVE PITCH ERROR 1.0 mm/20
FEED HOLE CENTRE TO COMPONENT CENTRE	P2		6.35		±0.4	PITCH TO BE MEASURED AT BOTTOM OF CLINCH
DISTANCE BETWEEN OUTER LEADS COMPONENT ALIGNMENT TAPE WIDTH HOLD-DOWN TAPE WIDTH HOLE POSITION	F △h W Wo W1		5.08 0 18 6 9	1	+0.6 -0.2 ±0.5 ±0.2 +0.7 -0.5	AT TOP OF BODY
HOLD-DOWN TAPE POSITION LEAD WIRE CLINCH HEIGHT COMPONENT HEIGHT LENGTH OF SNIPPED LEADS FEED HOLE DIAMETER TOTAL TAPE THICKNESS LEAD - TO - LEAD DISTANCEF1,	W2 Ho H1 L Do t		0.5 16 4 2.54	23.25 11.0 1.2	±0.2 ±0.5 ±0.2 +0.4 -0.1	t1 0.3 - 0.6
CLINCH HEIGHT PULL - OUT FORCE	H2 (P)	6N		3	- U. I	

- MAXIMUM ALIGNMENT DEVIATION BETWEEN LEADS NOT TO BE GREATER THAN 0.2 mm.
 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"		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 CSC 1740

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Disclaimer

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