

CSD2470

TO-92 Plastic Package

ABSOLUTE MAXIMUM RATINGS

DESCRIPTION	SYMBOL	VALUE	UNITS	
Collector Base Voltage	V _{CBO}	15	V	
Collector Emitter Voltage	V _{CEO}	10	V	
Emitter Base Voltage	V _{EBO}	7.0	V	
Collector Current	Ι _C	5.0	A	
Collector Current Peak	*I _{CP}	8.0	A	
Collector Power Dissipation @ T _a =25°C	P _C	0.4	W	
Junction Temperature	Tj	150	°C	
Storage Temperature Range	T _{stg}	- 55 to +150	°C	

*Single Pulse=10ms

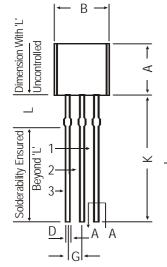
ELECTRICAL CHARACTERISTICS (T_a=25°C unless specified otherwise)

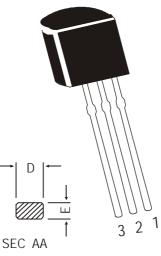
DESCRIPTION	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNITS
Collector Base Voltage	V _{CBO}	I _C =50μA, I _E =0	15			V
Collector Emitter Voltage	V _{CEO}	I _C =1mA, I _B =0	10			V
Emitter Base Voltage	V _{EBO}	I _E =50μA, I _C =0	7			V
Collector Cut off Current	I _{CBO}	V_{CB} =10V, I _E = 0			0.1	μΑ
Emitter Cut off Current	I _{EBO}	V_{EB} =6V, I_{C} = 0			0.5	μA
Collector Emitter Saturation Voltage	V _{CE(sat)}	I _C =3A, I _B =0.1A			0.5	V
DC Current Gain	h _{FE}	V _{CE} =2V, I _C =2A	270		820	
Transition Frequency	f _T	I _C =0.05A, V _{CE} =6V, f=100MHz		170		MHz
Output Capacitance	C _{ob}	I _E =0, V _{CB} =10V, f=1MHz		30		pF

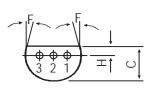
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PIN CONFIGURATION

1. BASE

2. COLLECTOR

3. EMITTER

В 4.45 5.20 С 3.18 4.19 D 0.41 0.55 Ε 0.35 0.50 F 5 DEG G 1.14 1.40 Н 1.14 1.53 Κ 12.70 1.982 2.082 L

MIN.

4.32

MAX.

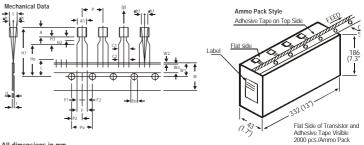
5.33

DIM

А

All diminsions in mm.

TO-92 Transistors on Tape and Ammo Pack



All dimensions in mm

ITEM		SPECIFICATION							
IIEM	SYMBOL	MIN.	NOM.	MAX.	TOL .	REMARKS			
BODY WIDTH	A1	4.0		4.8					
BODY HEIGHT	A	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 PI			
FEED HOLE CENTRE TO									
COMPONENT CENTRE	P2		6.35		± 0.4	TO BE MEASURED AT BOTTOM OF CLINCI			
DISTANCE BETWEEN OUTER					+ 0.6				
LEADS	F		5.08		+ 0.6				
COMPONENT ALIGNMENT SIDE VIEW	Δh		0	1.0	0.1	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							
		5.4				1			

 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.

Packing Detail

PACKAGE	STANDARD PACK		INNER CARTON BOX		OUTER CARTON BOX		
	Details	etails Net Weight/Qty		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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