

TO-92 Plastic Package Transistors (NPN)

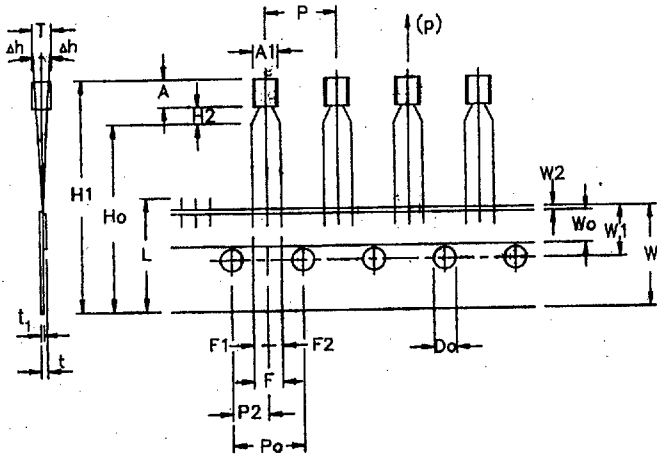


Maximum Ratings								Electrical Characteristics (Ta=25°C, Unless Otherwise Specified)																		
Type No.	V _{CBO} (V)	V _{CEO} (V)	V _{EB0} (V)	P _D (W)	I _C (A)	I _{CBO} (μA)	V _{CB} (V)	I _{CES} (μA)	V _{CE} (V)	h _{FE} @		I _C & V _{CE}	V _{CE(SAT)} (V)		V _{BE(SAT)} (V)	I _C (mA)	C _{ob} (pF)	f _t (MHz)	@	I _C (mA)	t _{on} (ns)	N _F (dB)	@ Freq (MHz)	C _{in} (pF)	CDIL Case Style	
	Min	Min	Min	@ Tc=25°C	Max	Max	Max	Max	Max	Min	Max	(mA)	(V)	Max	Min	Max	Max	Typ	Max	Typ	Max	Max	Max	Max	Max	
MPS6570	20	20	3	0.625	0.05	0.05	10			20	200	4 5	3		0.96	10		0.5	300	800	4		6	45		TO-92-3
MPS6571	20	20	3	0.625	0.05	0.05	20			250	1000	0.1 5	0.5			10		4.5	50		1					TO-92
MPS6573		35		0.625	0.1	0.1	35			100		0.1 5	0.5			10		12	100	300	10					TO-92
MPS6574		35		0.625	0.1	0.1	35			100	300	1 5	0.5			10		12	100	300	10					TO-92
MPS6575		45		0.625	0.1	0.1	45			100		0.1 5	0.5			10		12	100	300	10					TO-92
MPS6576		45	4	0.625	0.1	0.1	45			100	300	1 5	0.5			10		12	100	350	10					TO-92
MPSA05	60	60	4	0.625	0.5	0.1	60			100		10 1	0.25			100			100		10					TO-92
MPSA06	80	80	4	0.625	0.5	0.1	80			100		10 1	0.25			100			50		100					TO-92
MPSA10		40	4	0.625	0.1	0.1	30			40	400	5 10						4	50		5					TO-92
*MPSA13	30	\$30	10	0.625	0.5	0.1	30			5		10 5	1.5			100	5		125	200	10		2	0.001		TO-92
MPSA42	300	300	6	0.625	0.5	0.1	200			25		1 10	0.5		0.9	20		3	50		1					TO-92
MPSA43	200	200	6	0.625	0.5	0.1	160			25		1 10	0.4		0.9	20		4	50		10					TO-92
MPSA44	500	400	6	0.625	0.3	0.1	400	0.5	400	40		1 10	0.4			1		7								TO-92
MPSH11	30	25	3	0.35		0.1	25			60		4 10	0.5			4			650		4					TO-92-3
MPSH19	30	25	3	0.35		0.1	15			45		4 10						0.7	300		4					TO-92-3
MPSH20	40	30	4	0.35	0.1	0.05	15			25		4 10						0.7	400		4					TO-92-3
MPSH24	40	30	4	0.35	0.1	0.05	15			30		8 10						0.4	400		8					TO-92-3
MPSH30	20	20	3	0.625	0.05	0.05	10			20	200	4 5	3		0.96	10		0.7	300	800	4		6	45		TO-92-3
MPSH31	20	20	3	0.625	0.05	0.05	10			20	200	4 5	0.3		0.96	10		0.7	300	800	4		6	45		TO-92-3
MPSH32	40	30	4	0.625		0.05	10			27	200	4 5	3		1.2	10		0.2	300		4					TO-92-3
MPSH34	45	45	4	0.35	0.1	0.05	30			15		20 2	0.5			20		0.3	500		15					TO-92-3
MPSH37		40	5	0.35	0.1	0.5	35			25		5 10	0.5			10		0.7	300		5					TO-92-3
P2N2222A	75	40	6	0.625	0.8	0.01	60			35		0.1 10	0.3	0.6	1.2	150		8	300		20			100		TO-92-4
PBF259	300	300	5	0.625	0.5	0.05	250			25		1 10	1			30		3	40		1					TO-92
PBF259S	300	300	5	0.625	0.5	0.05	250			25		30 10	0.5			30		3	40		10					TO-92
PN918	30	15	3	0.625	0.05	0.01	15			20		3 1	0.4		1	10		1.7	600		4		6	60		TO-92
PN930	45	45	5	0.625	0.05	0.01	45				600	10 5	1	0.6	1	10		8	30		1		3			TO-92

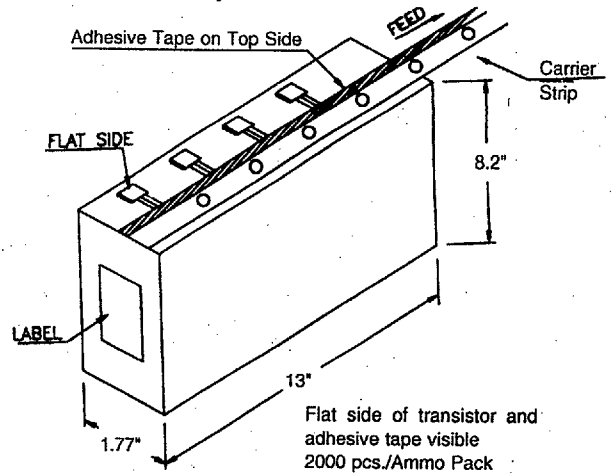
* NOTE : hFE values are K.

\$ V_{CES}

MECHANICAL DATA



Ammo Pack Style



Item	Symbol	Specification				Remarks
		Min.	Nom.	Max.	Tol.	
Body Width	A1	4.0		4.8		
Body Height	A	4.8		5.2		
Body Thickness	T	3.9		4.2		
Pitch of Component	P		12.7		±1	
Feed Hole Pitch	Po		12.7		±0.3	Cumulative Pitch Error 1.0 mm/20 Pitch
Feed Hole Centre to Component Centre	P2		6.35		±0.4	To be measured at bottom of Clinch
Distance between Outer Leads	F		5.08		±0.6	
Component Alignment	Δh		0	1	-0.2	At Top of Body
Tape Width	W		18		±0.5	
Hold-Down Tape Width	Wo		6		±0.2	
Hole Position	W1		9		±0.7	
Hold-Down Tape Position	W2		0.5		±0.2	
Lead Wire Clinch Height	Ho		16		±0.5	
Component Height	H1			32.25		
Length of Snipped leads	L			11.0		
Feed Hole Diameter	Do		4		±0.2	
Total Tape Thickness	t			1.2		t ₁ 0.3-0.6
Lead-to-Lead Distance	F1,F2		2.54		+0.4 -0.1	
Clinch Height	H2			3		
Pull-out Force	(p)	6N				

Dimensions in m.m.

- 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. Hold-down 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 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.