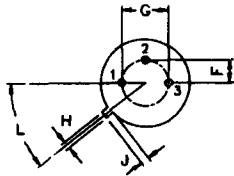


DIM	MIN	MAX
A	8,50	9,39
B	7,74	8,50
C	6,09	6,60
D	0,40	0,53
E	-	0,88
F	2,41	2,66
G	4,82	5,33
H	0,71	0,86
J	0,73	1,02
K	12,7	-
L	42 DEG	48 DEG

PIN CONFIGURATION  
 1. EMITTER  
 2. BASE  
 3. COLLECTOR

ALL DIMENSIONS ARE IN M.M.



**TO-39 Metal-Can Package Transistors (NPN)**

Maximum Ratings						Electrical Characteristics (Ta=25°C, Unless Otherwise Specified)													
Type No.	V <sub>CBO</sub> (V) Min	V <sub>CEO</sub> (V) Min	V <sub>EBO</sub> (V) Min	P <sub>D</sub> (W) @Tc=25°C	I <sub>C</sub> (A)	I <sub>CM</sub> (A)	I <sub>CBO</sub> (μA) Max	V <sub>CB</sub> (V) @ I <sub>C</sub>	I <sub>CES</sub> (μA) Max	V <sub>CE</sub> (V) @ I <sub>CES</sub>	h <sub>FE</sub> @ I <sub>C</sub> & V <sub>CE</sub>	I <sub>C</sub> & V <sub>CE</sub>	V <sub>CE(SAT)</sub> & V <sub>BE(SAT)</sub>	I <sub>C</sub> @ V <sub>CE</sub>	C <sub>ob</sub> (pF)	f <sub>t</sub> (MHz) @ I <sub>C</sub>	t <sub>off</sub> (ns)	NF (dB) @ Freq (MHz)	
											Min Max	Min Max	Max Min Max	Min Max Typ	Min Typ Max	Max	Max	Max	
2N1507	60	30	5	0.6	1		1	30			100 300	150 10	1.5	150	35				
2N1613	75	50	7	0.8	0.5		0.01	60			20 40 35 20	500 150 10 0.1	1.5	1.3 150	25	60		12	0.001
2N1644	60		5	2			1	30			40	150 10	1.5	1.3 150					
2N1711	75	50	7	0.8	1		0.01	60			40 100 35 20	500 150 10 0.01	1.5	1.3 150	25	70		8	
2N1837	80	30	8	0.6	1	1	0.5	30			40	120 150 10	0.8	1.3 150	18				
2N1838	45	20	5	0.6	0.5		1.5	30			40	150 100 10	1.4	1.5 100	27				
2N1840	25	15	5	0.6		0.5	0.3	10			10 10	150 150 10	1.4	1.75 150	27				
2N1889	100	80	7	0.8			0.01	75			20 35 40	0.1 10 10 150 10	1.2 5	0.9 1.3 50 150	15	50		50	
2N1890	100	80	7	0.8			0.01	75			100 300	150 10	1.2 5	0.9 1.3 50 150	15	60		50	
2N1893	120	80	7	0.8	0.5	1	0.01	90			20 35 40	0.1 10 10 150 10	1.2 5	0.9 1.3 50 150	15	50		50	
2N1972	60	30	5	0.6			1	30			110 350	50 10	2	50	25				-50
2N1973	100	80	7	0.8			0.025	75			75	10 10	1.2	50	15				60
2N1974	100	80	7	0.8			0.025	75			35	10 10	1.2	50	15				50
2N1975	100	80	7	0.8			0.025	75			15	10 10	1.2	50	15				40
2N1986	50	25	5	0.6	1		5	30			60 60	30 240	0.6 1.5	0.9 1.3 30 150	20 35				