



# TO-251-3L Plastic-Encapsulate Transistors

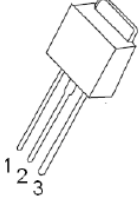
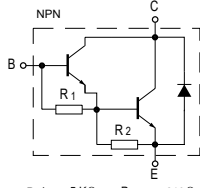
**A>8 %&&** TRANSISTOR (NPN)

**: 95HI F9G'**

- High DC Current Gain
- Electrically Similar to Popular TIP122
- Built-in a Damper Diode at E-C

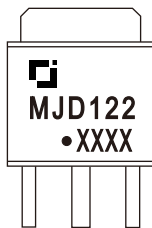
**HC!&) %&' @**

1.BASE  
2.COLLECTOR  
3.EMITTER

R1 typ. =5 KΩ R2 typ. =210Ω

## MARKING



MJD122=Device code  
Solid dot=Green moldinn compound device,  
if none,the normal device  
XXXX=Code

**A5L=AI A'F5HB; G (T<sub>a</sub>=25°C unless otherwise noted)**

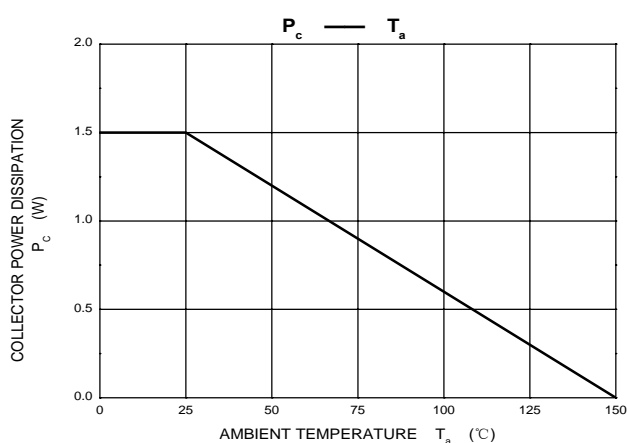
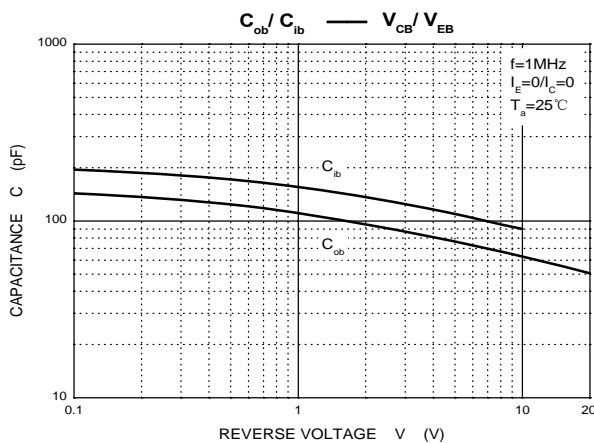
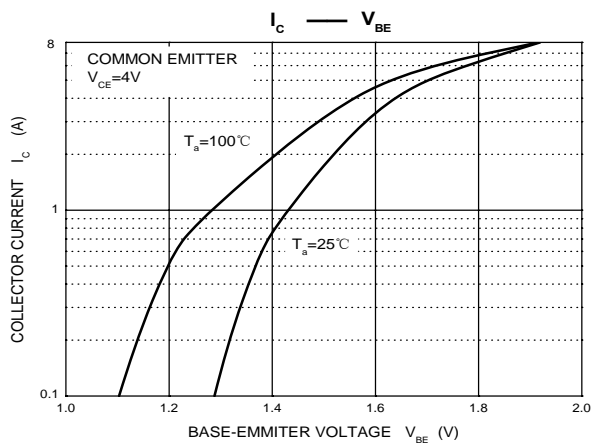
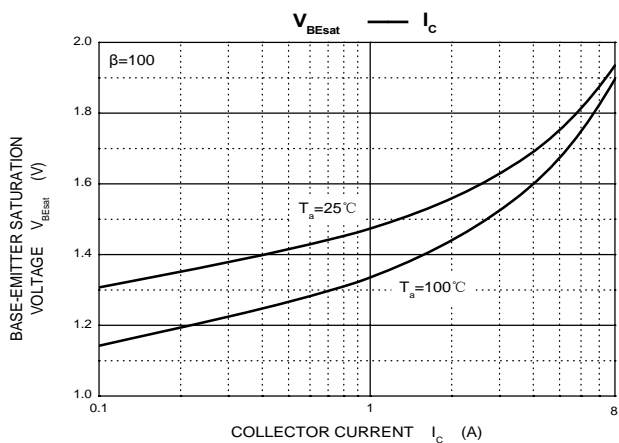
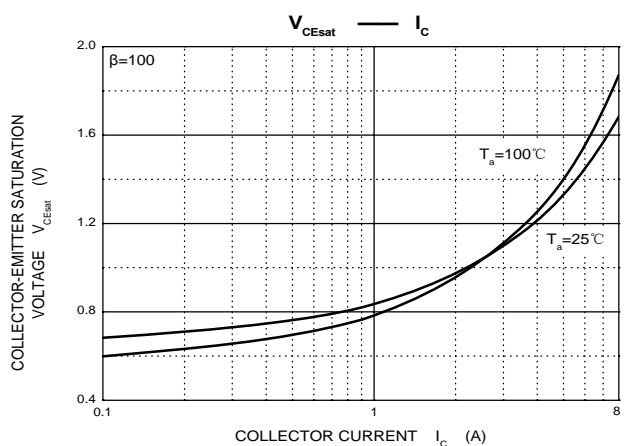
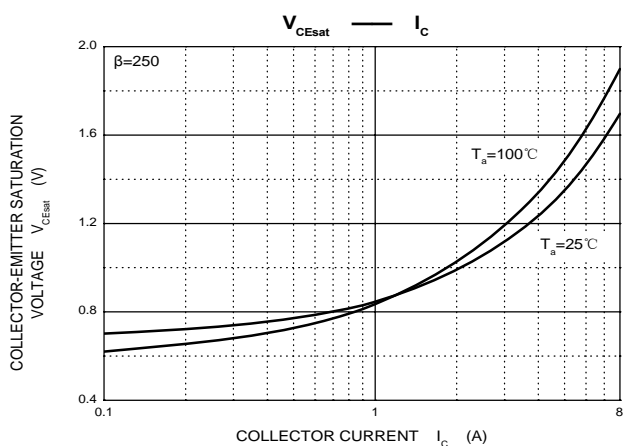
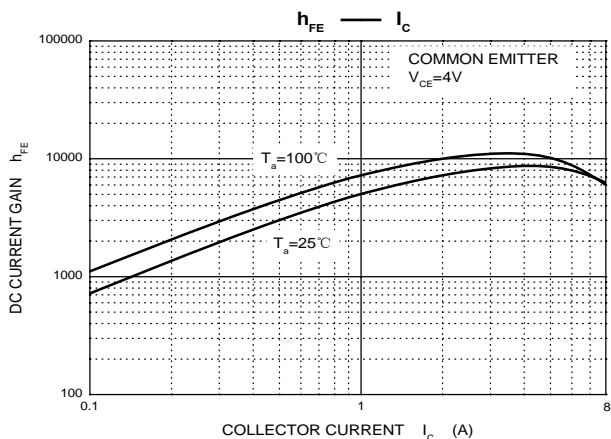
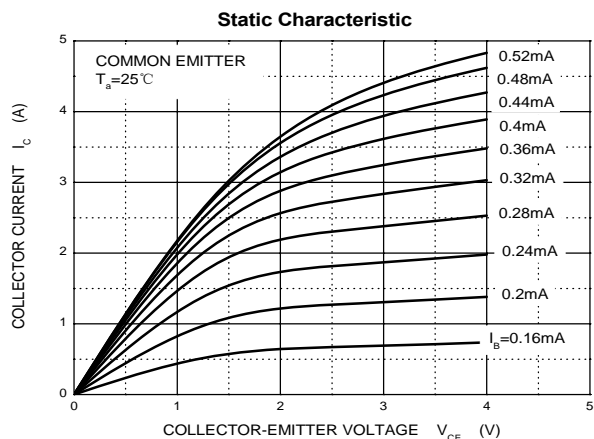
Qna Vc''	DUFUa YHY'	JUi Y	I bjh
J <sub>76c</sub> '	Collector-Base Voltage	100	V
J <sub>79c</sub> '	Collector-Emitter Voltage	100	V
J <sub>96c</sub> '	Emitter-Base Voltage	5	V
⇒'	Collector Current -Continuous	8	A
D <sub>7</sub> '	Collector Dissipation	1.5	W
HŽH <sub>9H</sub> '	Operation Junction and Storage Temperature Range	-55-150	°C

9 7 HF 5 @ 7 < 5 F 5 7 H 9 F - GH 7 G (H1 &) °C i b`Ygg`cH Yfk jgY`gdYVWZYX`

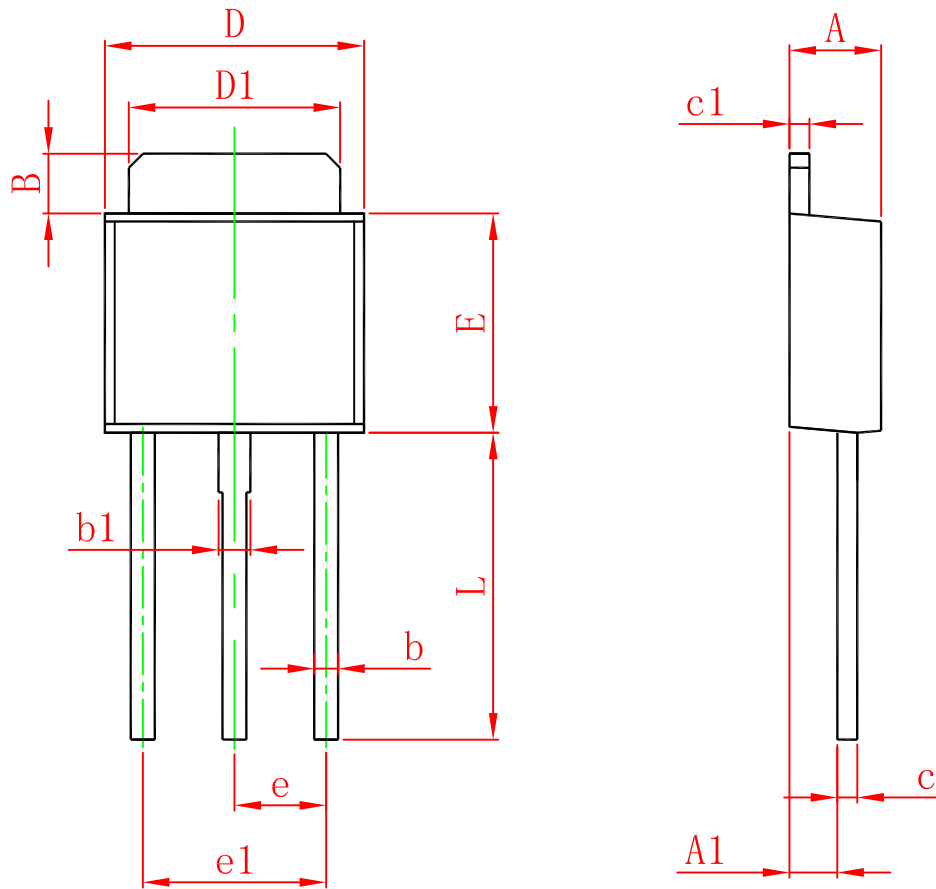
..... DUUa YHYf`	Gna Vc`	HYgh`VcbX]hcbg`	A]b	Hnd`.....	A U`.....	I b]h
7 c`YWcf!VUgYVfYU_Xck b`j c`HU] Y`	$V_{(BR)CBO}$	$I_C=1mA, I_E=0$	100			V
7 c`YWcf!Ya ]HYf`VfYU_Xck b`j c`HU] Y`	$V_{(BR)CEO}$	$I_C=30mA, I_B=0$	100			V
9a ]HYf!VUgYVfYU_Xck b`j c`HU] Y`	$V_{(BR)EBO}$	$I_E=3mA, I_C=0$	5			V
7 c`YWcf`W HcZZW ffYbhi`	$I_{CBO}$	$V_{CB}=100V, I_E=0$			10	$\mu A$
7 c`YWcf!Ya ]HYf`W HcZZW ffYbhi`	$I_{CEO}$	$V_{CE}=50V, I_E=0$			10	$\mu A$
9a ]HYf`W HcZZW ffYbhi`	$I_{EBO}$	$V_{EB}=5V, I_C=0$			2	mA
8 7`W ffYbhi[ U]b`	$h_{FE(2)}$	$V_{CE}=4V, I_C=4A$	1000		12000	
	$h_{FE(3)}$	$V_{CE}=4V, I_C=8A$	100			
7 c`YWcf!Ya ]HYf`gUhi fU]cb`j c`HU] Y`	$V_{CE(sat)1}$	$I_C=4A, I_B=16mA$			2	V
	$V_{CE(sat)2}$	$I_C=8A, I_B=80mA$			4	V
6 UgY!Ya ]HYf`gUhi fU]cb`j c`HU] Y`	$V_{BE(sat)}$	$I_C=8A, I_B=80mA$			4.5	V
6 UgY!Ya ]HYf`j c`HU] Y`*	$V_{BE}$	$V_{CE}=4V, I_C=4A$			2.8	V
7 c`YWcf`ci hdi hVUdUV]UbW`	$C_{ob}$	$V_{CB}=10V, I_E=0, f=0.1MHz$			200	pF

# Typical Characteristics

# MJD122



# TO-251-3L Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	2.200	2.400	0.087	0.094
A1	1.050	1.350	0.042	0.054
B	1.350	1.650	0.053	0.065
b	0.500	0.700	0.020	0.028
b1	0.700	0.900	0.028	0.035
c	0.430	0.580	0.017	0.023
c1	0.430	0.580	0.017	0.023
D	6.350	6.650	0.250	0.262
D1	5.200	5.400	0.205	0.213
E	5.400	5.700	0.213	0.224
e	2.300 TYP.		0.091 TYP.	
e1	4.500	4.700	0.177	0.185
L	7.500	7.900	0.295	0.311