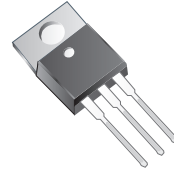
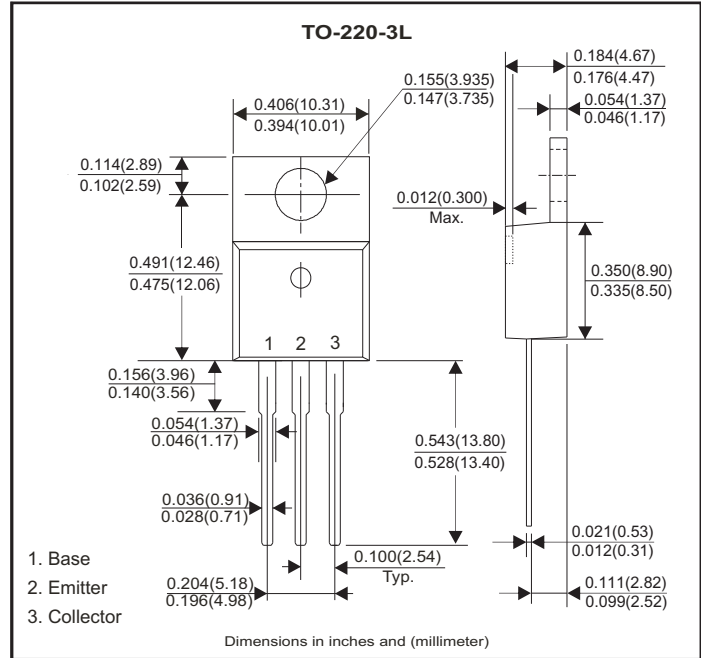


## MJE2955-G (PNP) RoHS Device



### Features

- General Purpose and Switching Application



### Maximum Ratings (at TA=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Collector-base voltage	V <sub>CBO</sub>	-70	V
Collector-emitter voltage	V <sub>CEO</sub>	-60	V
Emitter-base voltage	V <sub>EBO</sub>	-5	V
Collector current-continuous	I <sub>C</sub>	-10	A
Collector power dissipation	P <sub>C</sub>	2	W
Junction temperature	T <sub>J</sub>	150	°C
Storage temperature range	T <sub>STG</sub>	-55 to +150	°C

### Electrical Characteristics (at TA=25°C unless otherwise noted)

Parameter	Conditions	Symbol	Min	Max	Unit
Collector-base breakdown voltage	I <sub>C</sub> = -10mA , I <sub>E</sub> = 0	V <sub>(BR)CBO</sub>	-70		V
Collector-emitter breakdown voltage	I <sub>C</sub> = -200mA , I <sub>B</sub> = 0	V <sub>(BR)CEO</sub>	-60		V
Emitter-base breakdown voltage	I <sub>E</sub> = -10mA , I <sub>C</sub> = 0	V <sub>(BR)EBO</sub>	-5		V
Collector cut-off current	V <sub>CB</sub> = -70V , I <sub>E</sub> = 0	I <sub>CBO</sub>		-1	mA
Emitter cut-off current	V <sub>EB</sub> = -5V , I <sub>C</sub> = 0	I <sub>EBO</sub>		-5	mA
DC current gain	V <sub>CE</sub> = -4V , I <sub>C</sub> = -4A	h <sub>FE</sub> (1)*	20	100	
	V <sub>CE</sub> = -4V , I <sub>C</sub> = -10A	h <sub>FE</sub> (2)*	5		
Collector-emitter saturation voltage	I <sub>C</sub> = -4A , I <sub>B</sub> = -0.4A	V <sub>CE(sat)</sub> *		-1.1	V
	I <sub>C</sub> = -10A , I <sub>B</sub> = -3.3A	V <sub>CE(sat)</sub> *		-8	V
Base-emitter voltage	V <sub>CE</sub> = -4V , I <sub>C</sub> = -4A	V <sub>BE</sub>		-1.8	V
Transition frequency	V <sub>CE</sub> = -10V , I <sub>C</sub> = -0.5A	f <sub>T</sub>	2		MHz

## RATING AND CHARACTERISTIC CURVES (MJE2955-G )

Fig.1 - Static Characteristic

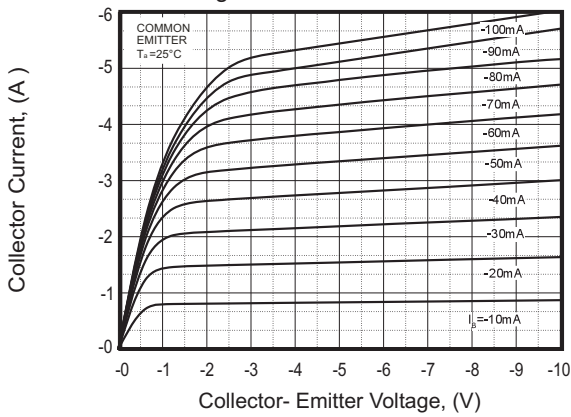


Fig.2 - h<sub>FE</sub> — I<sub>c</sub>

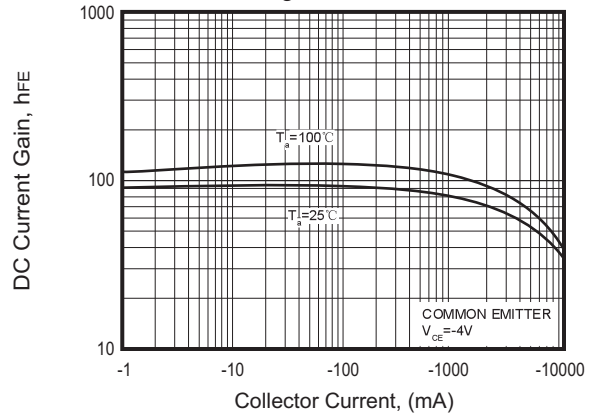


Fig.3 - V<sub>CEsat</sub> — I<sub>c</sub>

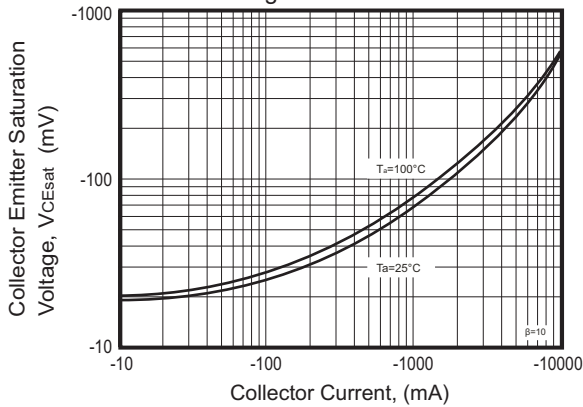


Fig.4 - V<sub>BEsat</sub> — I<sub>c</sub>

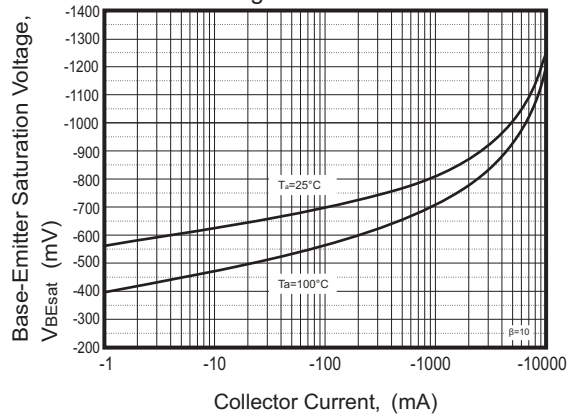


Fig.5 - I<sub>c</sub> — V<sub>BE</sub>

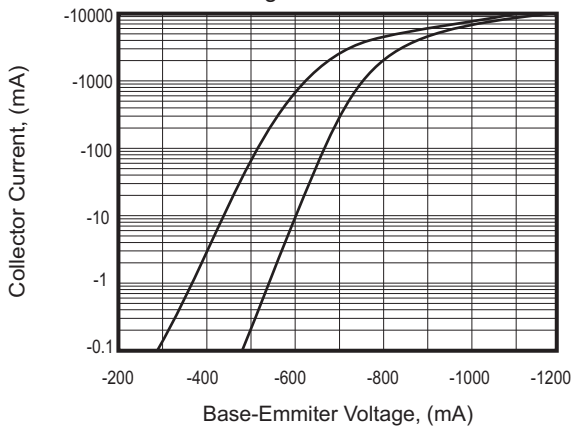


Fig.6 - C<sub>ob</sub>/C<sub>ib</sub> — V<sub>CB</sub>/V<sub>EB</sub>

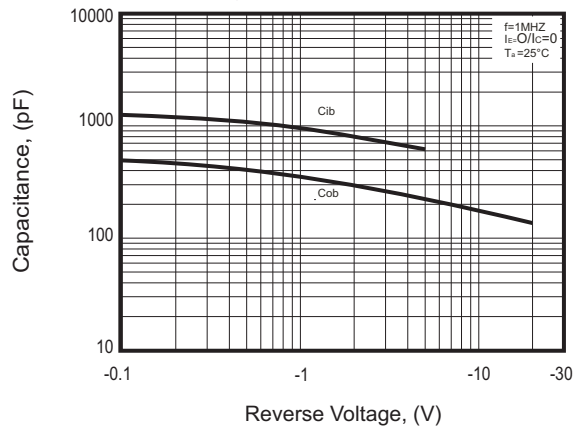
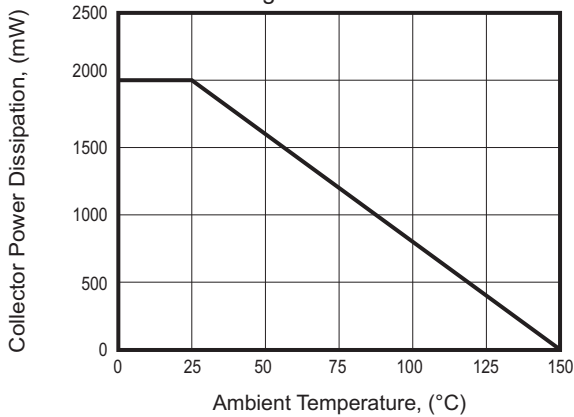
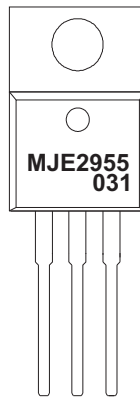


Fig.7 - P<sub>c</sub> — T<sub>a</sub>



## Marking Code

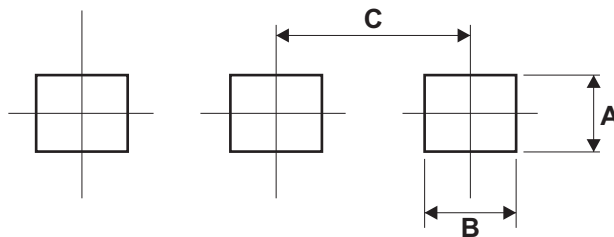
Part Number	Marking Code
MJE2955-G	MJE2955



MJE2955: Marking Code  
031: Control Code

## Suggested PAD Layout

SIZE	TO-220-3L	
	(mm)	(inch)
A	1.00	0.039
B	1.20	0.047
C	2.54	0.100



## Standard Packaging

Case Type	TUBE PACK	
	TUBE ( pcs )	Inner BOX ( pcs )
TO-220-3L	50	1,000