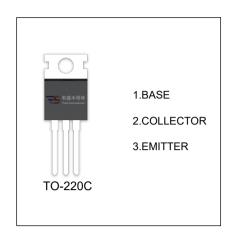


## MJE3055 TRANSISTOR (NPN)

## **FEATURES**

General Purpose and Switching Applications



## MAXIMUM RATINGS (Ta=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit	
V <sub>CBO</sub>	Collector-Base Voltage	70	V	
V <sub>CEO</sub>	Collector-Emitter Voltage	60	V	
V <sub>EBO</sub>	Emitter-Base Voltage	5	V	
Ic	Collector Current -Continuous	10	А	
Pc	Collector Power Dissipation	2	W	
T <sub>j</sub> ,T <sub>stg</sub>	Operation Junction and Storage Temperature Range	-55-150	℃	

## ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

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

Note:\*Pulse test:  $t_p \le 300 \mu S$ ,  $\delta \le 0.02$ .



