

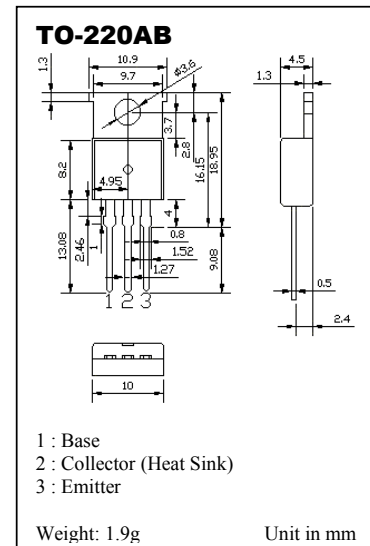
## NPN PLASTIC POWER TRANSISTOR

...designed for low frequency power amplifier applications.

...complementary to PMB507

### MAXIMUM RATINGS (Ta = 25 °C)

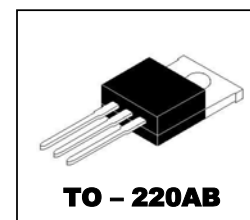
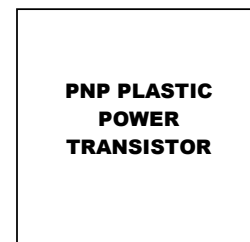
Characteristic	Symbol	Value	Unit
Collector Base Voltage	VCBO	60	V
Collector Emitter Voltage	VCEO	60	V
Emitter Base Voltage	VEBO	5	V
Collector Current	IC	3	A
Collector Current (Peak)	ICM	8	A
Collector Power Dissipation Tc = 25 °C	Ptot	30	W
Junction Temperature	Tj	150	°C
Storage Temperature	Tstg	-65 ~ 150	°C



### ELECTRICAL CHARACTERISTICS (Ta = 25 °C)

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Collector Cutoff Current	ICBO	V <sub>CB</sub> =20V, I <sub>E</sub> =0	-	-	0.1	mA
Collector Cutoff Current	ICEO	V <sub>CE</sub> =60V, I <sub>B</sub> =0	-	-	5	mA
Emitter Cutoff Current	IEBO	V <sub>EB</sub> =4V, I <sub>C</sub> =0	-	-	1	mA
Collector Base Breakdown Voltage	V <sub>(BR)CBO</sub>	I <sub>C</sub> =1mA, I <sub>B</sub> =0	60	-	-	V
Collector Emitter Breakdown Voltage	V <sub>(BR)CEO</sub>	I <sub>C</sub> =-1mA, I <sub>E</sub> =0	60	-	-	V
Emitter Base Breakdown Voltage	V <sub>(BR)EBO</sub>	I <sub>C</sub> =-1mA, I <sub>C</sub> =0	5	-	-	V
*DC Current Gain	h <sub>FE(1)</sub>	I <sub>C</sub> =0.1A, V <sub>CE</sub> =2V	40	-	-	-
	h <sub>FE(2)</sub>	I <sub>C</sub> =1A, V <sub>CE</sub> =2V	40	-	320	-
*Collector Emitter Saturation Voltage	V <sub>CE(sat)</sub>	I <sub>C</sub> =2A, I <sub>B</sub> =0.2A	-	-	1	V
*Base Emitter On Voltage	V <sub>BE(on)</sub>	I <sub>C</sub> =1A, V <sub>CE</sub> =2V	-	-	1.5	V
Transition Frequency	f <sub>r</sub>	I <sub>C</sub> =500mA, V <sub>CE</sub> =5V	-	8	-	MHz

\*Pulse Test: pulse width ≤ 300μs, duty cycle ≤ 2%



### CLASSIFICATIONS OF h<sub>FE(2)</sub>

Rank	C	D	E	F
Range	40 to 80	60 to 120	100 to 200	160 to 320

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