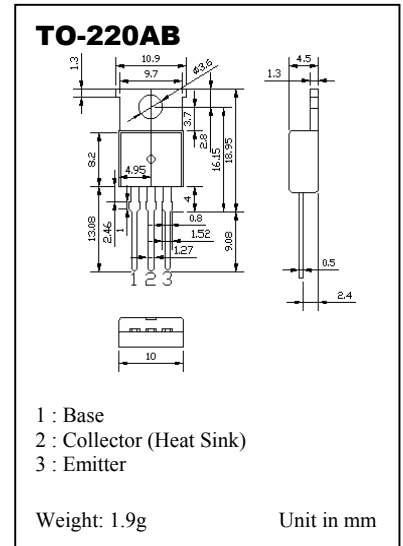


# PNP SILICON EPITAXIAL POWER TRANSISTOR

... designed for power linear and switching applications.  
 ... complementary to BD911.

## MAXIMUM RATINGS

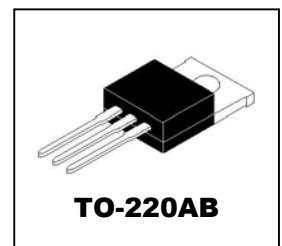
Characteristic	Symbol	Value	Unit
Collector Base Voltage (IE=0)	VCBO	-100	V
Collector Emitter Voltage (IB=0)	VCEO	-100	V
Emitter Base Voltage (IC=0)	VEBO	-5	V
Collector Current	IC, IE	-15	A
Base Current	IB	-5	A
Total Power Dissipation Tc≤25°C	Ptot	90	W
Junction Temperature	Tj	150	°C
Storage Temperature Range	Tstg	-65 ~ 150	°C



## ELECTRICAL CHARACTERISTICS (Tc = 25 °C)

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Collector Cutoff Current	ICBO	V <sub>CB</sub> =-100V, I <sub>E</sub> =0	-	-	-500	μA
		V <sub>CB</sub> =-100V, I <sub>E</sub> =0, T <sub>c</sub> =150°C	-	-	-5	mA
Collector Cutoff Current	ICEO	V <sub>CB</sub> =-50V, I <sub>B</sub> =0	-	-	-1	mA
Emitter Cutoff Current	IEBO	V <sub>EB</sub> =-5V, I <sub>C</sub> =0	-	-	-1	mA
DC Current Gain	hFE*	V <sub>CE</sub> =-4V, I <sub>C</sub> =-0.5A	40	-	250	-
		V <sub>CE</sub> =-4V, I <sub>C</sub> =-5A	15	-	150	-
		V <sub>CE</sub> =-4V, I <sub>C</sub> =-10A	5	-	-	-
Collector Emitter Saturation Voltage	V <sub>CE(sat)*</sub>	I <sub>B</sub> =-0.5A, I <sub>C</sub> =-5A	-	-	-1	V
		I <sub>B</sub> =-2.5A, I <sub>C</sub> =-10A	-	-	-3	V
Base Emitter Saturation Voltage	V <sub>BE(sat)*</sub>	I <sub>B</sub> =-2.5A, I <sub>C</sub> =-10A	-	-	-2.5	V
Base Emitter Voltage	V <sub>BE</sub> *	V <sub>CE</sub> =-4V, I <sub>C</sub> =-5A	-	-	-1.5	V
Collector Emitter Sustaining Voltage	V <sub>CE(sus)*</sub>	I <sub>B</sub> =0, I <sub>C</sub> =-100mA	-100	-	-	V
Transition Frequency	f <sub>T</sub>	V <sub>CE</sub> =-4V, I <sub>C</sub> =-0.5A	3	-	-	MHz

\*Pulsed: Pulse duration=300μs, duty cycle1.5%.



**PMC** reserves the right to make changes without further notice to any products herein. **PMC** makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does **PMC** assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation consequential damages. The examples of applied circuits are provided as reference to the reader therefore we shall not undertake any responsibility for the exercise of rights by third parties.