TIP168A PNP Epitaxial Silicon Transistor

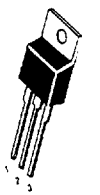
MEDIUM POWER LINEAR SWITCHING APPLICATIONS

- Collector current 18A
- Collector dissipation Pc =100W (Tc = 25 ℃)

ABSOLUTE MAXIMUM RATINGS (Ta = 25 ℃)

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage	V_{CBO}	-20	V
Collector-Emitter Voltage	V_{CEO}	-13	V
Emitter-Base Voltage	V_{EBO}	-7	V
Collector Current	Ic	-18	A
Collector Dissipation	Pc	100	W
Junction Temperature	Tj	150	℃
Storage Temperature	Tstg	-55 ~150	℃

TO-220

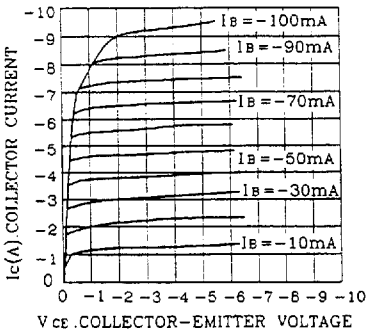


1. Base 2. Collector 3. Emitter

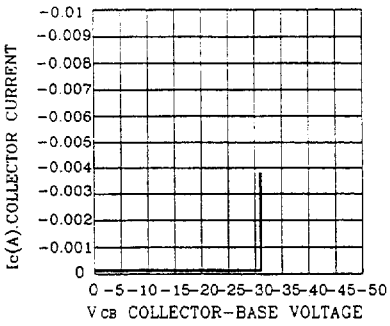
ELECTRICAL CHARACTERISTICS (Ta = 25℃)

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Collector-Base Breakdown Voltage	BV_{CBO}	Ic = -1mA, I_E = 0	-20			V
Collector-EmitterBreakdown Voltage	BV_{CEO}	Ic = -10mA, I_B =0	-13			V
Emitter-Base Breakdown Voltage	BV_{EBO}	I_E = -1mA, I_C = 0	-7			V
Collector Cutoff Current	I_{CBO}	V_{CB}= -15V,I_E=0			-100	μA
Emitter Cutoff Current	I_{EBO}	V_{EB}= -3V,I_C=0			-100	μA
DC Current Gain	h_{FE1}	V_{CE}= -3V,I_C=-10A	120			
	h_{FE2}	V_{CE}= -3V,I_C= -15A	90			
Collector-Emitter Saturation Voltage	$V_{CE(SAT)}$	I_C= -10A,I_B= -1A			-0.7	V
Base-Emitter Saturation Voltage	$V_{BE(SAT)}$	I_C= -10A, V_{CE}= -4V			-1.5	V

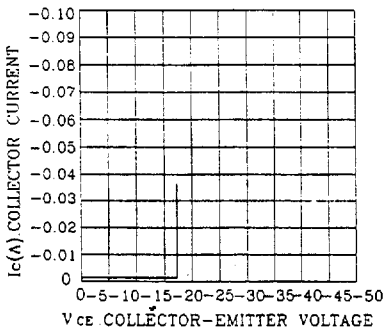
DC CURRENT GAIN



COLLECTOR-BASE BREAKDOWN VOLTAGE



COLLECTOR-EMITTER BREAKDOWN VOLTAGE



COLLECTOR-EMITTER SATURATION VOLTAGE